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A CASE ANALYSIS OF NAVY TRANSPORTATION
POLICY CHANGES AND THEIR EFFECT ON
INVENTORY LEVELS AT OVERSEAS LOCATIONS

by

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December, 1989

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A Case Analysis of Navy Transportation
Policy Changes and Their Effect on
Inventory Levels at Overseas Locations

by

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Submitted in partial fulfillment
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ABSTRACT

This thesis provides an analysis of policy changes directed by the Secretary of the Navy and Commander, Navy Supply Systems Command which have altered the method of transporting spare parts to overseas locations. In particular, an analysis is provided of the affect of resupplying spare parts by surface transportation that had previously been transported by air. The increase in time between air and surface transport required to move these materials is expected to result in the need for increased inventory levels to maintain the authorized protection. This thesis identifies the changes in protection levels needed to maintain an established level of support and attempts to identify the costs incurred in doing so. Analysis focuses on secondary item inventories for Intermediate Maintenance Activity (IMA) support which are maintained by the Naval Air Station (NAS) Rota Spain Supply Department.

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I. INTRODUCTION

A. BACKGROUND

During November of 1988, as a result of budget reductions driven by the projected FY-89 budget deficit, the Secretary of the Navy (SECNAV) issued an All Navy (ALNAV) Message 151/88 titled "FY-89 Servicewide Transportation (SWT) Funding" [Ref. 1]. The ALNAV identified a SWT funding shortfall for Fiscal Year (FY) 1989 of 60 million dollars and incorporated specific SWT cost control actions that were recommended by Fleet Command and Hardware Systems Command representatives at an August 1988 budget execution meeting. It further directed that these cost control actions were for immediate implementation. [Ref. 1]

B. THESIS OBJECTIVE

The primary purpose of this thesis is to analyze how these Transportation Policy changes are expected to affect supply support to overseas locations. Specific analysis is targeted at identifying increases in transportation time/Order and Ship Time (OST) which should result in increases in inventory required to sustain the established protection levels. Secondly, this thesis attempts to establish a cost related to the increases in inventory levels that result from increased

transportation time and determine if the savings incurred by using surface transportation are offset by these increases.

C. SCOPE

This analysis focuses on inventory levels maintained by the Naval Air Station (NAS) Rota Supply Department. NAS Rota Supply Department maintains secondary item inventories for Intermediate Maintenance Activity (IMA) support to NAS tenant Activities. Primary aircraft supported by the IMA include: P-3B/C, EP-3E, EA-3B, C-130 and C-12. For the purposes of this study, analysis will focus on Intermediate Maintenance Activity Repairable Attrition Allowances.

D. METHODOLOGY

This analysis uses 3M demand data for computing allowance requirements, taking into account projected increases in transportation time/OST. The 3M data were obtained from the NAS Rota Fixed Allowance Review Aid and 3M Activity Display. [Refs. 2,3] The data are required to develop Shore Based Consolidated Allowance Lists (SHORCAL) and includes 3M data for the period from April 1988 to March 1989. This data lists the demand requirements, both attrition and rotatable pool, associated with inventories stocked at NAS Rota.

E. PREVIEW

Chapter II provides an overview of the Naval logistics organization and the Naval Supply System detailing responsibilities as they apply to logistic support and inventory management. Chapter III examines the "FY-89 Servicewide Transportation (SWT) Funding" message (ALNAV 151/88) and resulting Naval Supply (NAVSUP) messages to identify policy changes related to SWT. It reviews those actions taken as a result of the policy changes, identifying the materials affected and the effect these actions have on transportation times required to move these materials to two overseas locations, NAS Rota, Spain and Naval Supply Depot, (NSD) Guam. Chapter III also describes the process used in determining inventory levels for SHORCALs. Chapter IV recalculates allowance levels needed as a consequence of the increased transportation time to NAS Rota, Spain due to changing from air to surface transportation. It then provides a second analysis of the same data for a transportation time increase appropriate for NSD Guam. Chapter IV also provides an analysis of the costs associated with these allowance increases. The final chapter summarizes the results of the analyses and provides recommendations for areas of further study.

II. NAVY LOGISTICS ORGANIZATION

The purpose of this chapter is to provide an overview of the functions and organizational responsibilities of the Navy logistics system, the Navy transportation system and the Navy Supply System. The first section will describe the functions of the Navy logistics system and responsibilities within the Naval logistics organization. The second section will focus on management of Navy transportation followed by a discussion of the function of the Naval Supply System and responsibilities at each level of the organization.

A. NAVY LOGISTICS SYSTEM

The Navy logistics system is tasked with the planning and execution of the movement and maintenance of Naval forces [Ref. 4:p. 2]

1. Functions of the Navy logistics system

The responsibilities inherent in the Navy logistics system cover a broad range of actions including design and development, acquisition, storage, movement, distribution and disposition of materials. Design, maintenance and disposal of facilities and determination of training requirements for personnel also fall within the purview of Naval logistics. These activities can be divided into three primary, interactive functions including acquisition logistics,

in-service support, and operational logistics. These functions are described as follows [Ref. 4]:

1. Acquisition Logistics-represents the Navy investment in logistic support resources and services. It is this function which provides the basic building blocks of operational force readiness and sustainability.

2. In-Service Support-is the distribution of the necessary supplies and proper maintenance of weapons and support systems. This function incorporates the mission of the Navy Supply System to provide supplies and services with the responsibilities of the Navy Maintenance organization and Base Operating Support.

3. Operational Logistics-is the allocation of Logistic Support Resources to all levels of the operating forces.

2. Organizational responsibilities of the Naval Logistics System

The Chief of Naval Operations (CNO) retains overall responsibility for both user and producer logistics in the Navy [Ref. 5:p. 4-1] Organizational responsibilities of the Naval Logistics system are divided between three separate organizations under the CNO: (1) the Office of the Chief of Naval Operations, (2) The shore establishment consisting of Systems Commands and CONUS Shore Commands, and (3) Operating Forces Commanders-in Chief. [Ref. 4:pp. 2-3]

Within the Office of the Chief of Naval Operations responsibilities are divided between Program Sponsors, the Deputy Chief of Naval Operations (DCNO)(Logistics) OP-04, the Director of Navy Program Planning and the Deputy Chief of Naval Operations (Plans, Policy and Operations). Program Sponsors are primarily responsible for conducting Planning, Programing, and Budgeting (PPBS) activities and ensuring integration of logistics considerations in the PPBS process. The DCNO for Logistics, OP-04, is the Logistics Program Sponsor and is responsible for accessing force logistics requirements and developing the Navy Acquisition and Operational Logistics Policy. The Director of Navy Program Planning supervises and evaluates policy and is responsible for programing and budgeting of Navy Logistics System resources. The DCNO for Plans, Policy and Operations provides strategic planning guidance for mobilization requirements in time of war. [Ref. 4:pp. 2-3]

The Shore Establishment is made up of the Systems Commands (SYSCOMS) and Manpower, Personnel, Training, Medical and Shore Commands. There are five Systems Commands under the Chief of Naval Operations: the Naval Air Systems Command (NAVAIR), the Naval Sea Systems Command (NAVSEA), the Naval Supply Systems Command (NAVSUP), the Space and Naval Warfare Systems Command (SPAWAR) and the Naval Facilities Engineering Command (NAVFAC). The SYSCOMS are responsible for developing

in-service support logistics policy relative to the Navy Supply System, facilities engineering and maintenance of activities under their cognizance. The Manpower, Personnel, Training, Medical and Shore Commands implement logistic activities as directed by OPNAV Program Sponsors.

[Ref. 4:p. 3]

Operating Forces, Fleet Commanders-in Chief (CINC) and other Navy Component Commanders are responsible for identifying acquisition and in service support logistics requirements and forwarding these requirements to their cognizant shore activities. [Ref. 4:p. 7]

B. MANAGEMENT OF NAVY TRANSPORTATION

Overall responsibility for the management of Navy-wide transportation resides with the Chief of Naval Operations. As in the Logistics Organization, responsibilities for day to day management of Navy Transportation are shared. The Deputy Chief of Naval Operations (Logistics) OP-04 is responsible for Navy Transportation Management within the Naval Operations organization. Under OP-04, the Director of the Material Division (OP-41) controls Navy transportation functions within the Defense Transportation System (DTA). The Director also acts as the program coordinator, issues policy guidance and evaluates transportation service. Also under OP-04, the Director of the Strategic Sealift Division (OP-42) is

responsible for the planning, programming and budgeting cycle and is the Navy Program Sponsor for Military Sealift Command (MSC). [Ref. 6:pp. 1-5]

The Naval Military Personnel Command has the primary responsibility as Manager Navy Passenger Transportation.

The Commander, Naval Supply Systems Command (COMNAVSUP), is designated as the Manager of Navy Material Transportation. The primary managerial responsibility is to provide effective transportation support at the lowest cost possible. COMNAVSUP is specifically responsible for recommending policy changes and financial management of Servicewide Transportation (SWT) which is composed of Second Destination Transportation (SDT) and designated First Destination Transportation (FDT) funds. [Ref. 6:pp. 4-5]

Major Claimants (major commands designated as an administering office under the Operations and Maintenance appropriation) are responsible for providing budget projections for SWT funds in preparation of budget formulation and execution. [Ref. 6:p. 5]

C. NAVAL SUPPLY SYSTEM

This section describes the organization and functional responsibilities of the Naval Supply System and identifies the material classifications maintained within the system.

1. System Responsibilities

The Naval Supply Systems Command (NAVSUP) is responsible for administration of the Navy supply system and the transportation of Navy property [Ref. 5:pp. 2-4].

NAVSUP's Inventory Control Points (ICPs) "are responsible for providing supplies to meet total user needs for most of the Navy supply items [Ref. 5:p. 6]." There are two ICPs: the Aviation Supply Office (ASO) and the Ships Parts Control Center (SPCC). The ICP's determine what and where material will be stocked, and in conjunction with the hardware systems commands and the consumers it will determine the support missions that the supporting stock points will carry out. [Ref. 5,7]

Naval Supply Centers (NSC's), Naval Supply Depots (NSDs) and Supply Departments of major Air Stations are the stock points for the bulk of the material maintained within the Naval Supply System. They also interact directly with both the ICPs and operational users in making allowance determinations. [Ref. 5,7]

Another responsibility of the Naval supply system is the inventory management of secondary items of supply. Secondary items of supply are defined as "consumable and repairable items and those end items not classified as principal end items." [Ref. 8:p. 2] Each item is centrally managed by an ICP.

There are two major levels of inventory managed within the Naval Supply system, wholesale and retail. Wholesale level inventory consists of material which is visible to the ICP manager. Aviation related material is managed by the ASO. Items for ships and non-aviation shore activities are managed by the SPCC.

Retail level inventory is material held below the wholesale level and divided into two types, intermediate and consumer level inventory. Intermediate level inventory consists of material "that is required between the consumer and wholesale levels of inventory for support of a defined area or for tailored support of specified consumer organizations." [Ref. 8:p. 2] Consumer level inventory consists of material "usually of limited range and depth, held only by the final element in an established supply distribution system for the sole purpose of internal consumption." [Ref. 8:p. 2] With the exception of repairables, item visibility is not available to the ICP's for material in either retail category.

D. AVCAL/SHORCAL PROCESS

This section provides a basic understanding of the Aviation Consolidated Allowance List (AVCAL) and Shore Based Consolidated Allowance List (SHORCAL), both of which are consumer level inventories. It also describes the process of

periodic AVCAL/SHORCAL redetermination and review. This information is important for a later application of the process and allowance determination. The following definitions are helpful in understanding the AVCAL/SHORCAL process [Ref. 8:pp. 3-4]:

Demand based Item-This definition is applied to items experiencing demands at a specific location or retail inventory (either intermediate or consumer). A demand based item is one for which the decision to stock, not to stock, or continue stockage is based upon actual demands previously recorded at, or transferred to, that particular activity or location. The transfer of actual demand data is applicable when operation units are transferred from one location to another, and/or equipment is actually transferred. Averaging or calculation of demands for similar equipment or organizations to establish stockage criteria does not qualify for identification as a demand supported item. In forecasting, however, experienced demand may be factored by program data.

Non-Demand Based Item-An item for which the decision to stock is based upon program related data or weapons system essentiality data rather than previously recorded demands. Inventory levels for non-demand based items are based on allowance lists or stockage lists and are usually developed by the Program Support Inventory Control Point (PSICP), either SPCC or ASO.

Allowance List-A list or document specifically tailored to an activity for support of maintenance and/or supply mission. Authorized activity allowances include:

Aviation Consolidated Allowance List (AVCAL). A consolidated listing of components, repair parts, and consumable items required for a mobile activity (ashore or afloat) to perform aviation organizational and intermediate level maintenance in support of assigned aircraft. The AVCAL also reflects activity demand in determining requirement levels.

Shore Based Consolidated Allowance List (SHORCAL). A requirements package identifying consumable items and fixed allowance requirements for depot and field level repairable items required to support planned operational and maintenance missions at designated Naval and Marine Corps air stations. In developing requirements, SHORCAL employs activity usage data and weapon system planning data to identify candidate items.

The Allowance Requirements Register (ARR)-Contains projections of the range and depth of spare assemblies and parts necessary to support the aircraft, associated systems and ground support equipment at the intermediate and organizational levels of maintenance. ARRs are segregated by the type of material to be supported, such as the aircraft, the avionics package or the support equipment. ARRs are normally divided into several parts. Part I contains attrition support, Part II contains rotatable pool items, and Part III and subsequent parts are used for special support requirements. [Ref. 9:p. 44]

The AVCAL/SHORCAL is developed by ASO to support assigned aircraft and support equipment located at a specific site. The initial step in the AVCAL/SHORCAL development process is the identification of all applicable ARRs. This provides the basic allowance requirements for each aircraft type. It includes allowances of aeronautical materials (Depot Level Repairables (DLR), Field Level Repairables (FLR) and consumables) needed to achieve required readiness standards. [Refs. 5,7,8,9]

The AVCAL/SHORCAL includes both demand and non-demand based items and the quantity of each, required to be self supporting for a specific time period. This time period is 30 days for Continental U.S. (CONUS) shore stations, 60 days

for overseas shore stations and 90 days for ships and deployed Marine Air Group (MAG). [Refs. 5,7,8,9]

Contents of the AVCAL/SHORCAL are based on number and type of aircraft, projected flight hours, applicable aircraft subsystems, historical demand data (attrition, repairs and turn-around time) and configuration data maintained in the Weapon System File (WSF) and supported by the Allowance Requirements Registers. [Refs. 5,7,8,9]

The first step of the AVCAL/SHORCAL process is to compute the ARR range and depth quantities. The second step consists of comparing these recommended quantities with actual usage data from the activity. This is the first point in the process that uses actual usage data maintained by the activity. If actual usage is smaller, the recommended quantity remains unchanged. If no actual usage is reported, the recommended quantity is reduced to one.

The final step is the AVCAL/SHORCAL review. The review includes participation by representatives from ASO, the appropriate Type Commander and the activity for which the AVCAL was developed. The purpose of the review is to validate AVCAL coverage, verify high dollar value and high quantity requirements and to brief the activity on the various documents and listings included in the AVCAL package.

[Ref. 10:p. 1]

The following elements are used in the AVCAL/SHORCAL process and to construct ARRs:

a. Maintenance Cycle (MC) base-Normally, 100 flying hours constitute one MC for an aircraft, its installed equipment and engine. The MC is fixed at four months for ground support equipment.

b. Maintenance Replacement Factor (MRF)-The MRF is the number of times during a year that a repairable will be Beyond the Capability of Maintenance (BCM) at the intermediate level of repair at the end of a maintenance cycle.

c. Units Per Component/Aircraft-This is the number of times the item appears in the component/aircraft.

d. Planned Operating Hours-This represents the planned aircraft utilization per month and is provided by the CNO.

e. The Number of Aircraft-This is the number of aircraft to be supported by the ARR/AVCAL and is reflected in the Weapon System Planning Document (WSPD).

f. Rotatable Pool Factor (RPF)-The RPF is the expected number of times during a year that a repairable will require removal from an aircraft/engine/equipment and be returned to an intermediate level of maintenance for restoration at the end of a maintenance cycle.

g. Turn-Around Time (TAT)-The TAT is the average number of working days between the removal of a repairable item for necessary processing at the intermediate maintenance level, or below, until it is restored to a ready-for-issue (RFI) condition.

h. Support Period-This is the period for which the ARR/AVCAL will provide attrition support. The CNO establishes this period, which is normally 90 days for afloat units, 60 days for EXCONUS shore activities and 30 days for CONUS shore activities. [Ref. 9:p. 45]

III. ANALYSIS OF TRANSPORTATION POLICY CHANGES

This chapter examines SECNAV ALNAV 151/88 [Ref. 1] and resulting NAVSUP messages to identify policy changes which affect transportation time/Order and Ship Time (OST) relating to inventory management. It reviews the actions directed by the Secretary of the Navy to identify specific materials which are affected by transportation policy changes. This is followed by an analysis of the impact expected on transportation time/OST primarily to overseas locations.

A. BACKGROUND

Since 1985 a period of ever increasing cutbacks has pressured the DOD budget. All areas have been scrutinized for potential savings and Servicewide Transportation (SWT) is no exception. An examination of transportation costs reveals a potentially lucrative target for major savings. A look at 1988 transportation volume and costs readily revealed that 4.1% of total cargo was costing 40.3% of the budget. Airlift amounted to a total cost of \$148.7M for movement of 137.8 thousand tons of cargo. Sealift, on the other hand, cost \$88.9M for movement of 1,718.8 thousand tons of cargo. This would indicate that air transport is at least 21 times more expensive than surface transport. [Ref. 11]

B. ANALYSIS OF POLICY CHANGES

The SECNAV ALNAV 151/88 established a policy of strict control over SWT funds. The ALNAV directs eighteen specific actions for Fleet Commanders/Major Claimants designed to reduce the cost of SWT. These actions cover all types of material transported in the Navy including non-perishable subsistence items, repositioning of war reserve material, equipment, ammunition and spares. The common thread is that these materials which had previously been eligible for air transportation in CONUS and overseas were now to be shipped by surface transportation. One of these actions in particular, "Divert to surface an additional 8,290 tons (approximately 30 percent of total requirement) of all transportation priority 2 (TP2), (UMMIPS priorities 4 through 8), air eligible shipments [Ref. 1]," has the potential to significantly impact inventory levels and is the focus of this thesis. Subsequent NAVSUP messages such as "FY-89 Service wide Transportation (SWT) Funding Message NO. I [Ref. 12]," reiterated the actions directed in SECNAV ALNAV 151/88 and directed a system of challenges for high cost transportation and air transported materials.

C. MATERIALS AFFECTED

Transportation Priority 2 (TP2), (UMMIPS priorities 4 through 8) material is essentially resupply of spare parts

inventories at the stock points. It includes items required for the immediate stock replenishment at overseas area supply activities when customer mission-essential stock levels drop below the recommended quantities [Ref. 13:p. 5]. In other words, when the attrition pool quantity drops because an item is not able to be repaired by the IMA, its replacement is TP2 material.

D. EFFECTS OF SURFACE TRANSPORTATION ON OST

This study uses two overseas locations, NAS Rota, Spain Supply Department and NSD Guam as representative of diverse locations supporting similar aviation squadrons. By establishing approximate mean OST for shipment of TP2 material the OST can then be used to recalculate SHORCAL inventory levels to support these two sites.

Informal estimates from NAVSUP indicate the following approximate transportation time/OST changes from air to surface transportation for the two stock points indicated [Ref. 14]:

TABLE 1
TRANSPORTATION TIME ESTIMATES

AIR		SURFACE
3-5 days	NAS ROTA SUPPLY	14-21 days
5-10 days	NSD GUAM	21-45 days

Using these estimates for NAS Rota Supply Department, mean time of four days when TP2 material were transported via air and a mean time of 18 days with the shift to surface transport are indicated. For NSD Guam, a mean time seven days for TP2 material transported by air and 35 days with the shift to surface transport are used. This leaves a net increase of 14 days for Rota and 28 days for Guam. Although the accuracy of these estimates is pertinent, no empirical data which either supports or refutes these estimates are available. Thus, this study assumes that they are reasonably accurate for determining the effects on inventory allowance levels.

IV. RECOMPUTED SHORCAL

This chapter describes the procedure for incorporating the increased Order and Ship Times (OST) due to the use of surface transportation rather than air transportation into the determination of the depths of items to be carried in the SHORCAL at Rota and Guam. The computed depths and resulting cost increases to the SHORCAL are also presented.

A. SHORCAL COMPUTATION PROCEDURES

Allowance quantities for the two types of protection, rotatable pool and attrition, are determined following range and depth rules. For example, an item will be allowed to have a rotatable pool quantity if its computed expected repair pipeline quantity (RPQ) exceeds 0.11. The Poisson probability distribution, with mean RPQ, is used to determine a depth which provides 90% protection.

The second type of protection is attrition protection which is divided into two categories, Attrition for a Rotatable Pool item (ARP) and Attrition with No Rotatable Pool item (ANRP). ARP requires that the quarterly average attrition demand, D , to be at least 1.0. For those attritions having D of 1.0 or greater and a positive rotatable pool quantity the attrition depth should provide 65% protection over 90 days.

If there is attrition and no rotatable pool quantity for an item, the depth needed to protect against stockouts will depend on two criteria;

- 1) Unit Price (P) < \$5000 and D>.33;
- 2) Unit Price (P) > \$5000 and D>.5.

The depth is established as the quarterly demand value, D, rounded up at .5. It is important to note that consumables will not be addressed in this thesis because consumable inventories are controlled at the local stock point level when one exists using Variable Operating and Safety Level (VOSL) guidelines [Ref. 15].

Demand data is obtained through the Aviation Maintenance and Material Management (AV-3M) system data files maintained by the Navy Maintenance Support Office (NAMSO). This data is comprised of maintenance information originated at the squadron level using the Visual Information Display System/Maintenance Action Forms (VIDS/MAFs) to detail all aspects of a repair from removal and trouble shooting to repair and replace. Times to accomplish repair are measured in manhours and are constrained to 20 days maximum. [Ref. 16]

The following rules are used to determine the ARR range and depth [Ref. 9]:

1. Range Rules. Using the factors described above, a predicted usage rate is computed for all items based on all aircraft and equipment to be supported. The rules for

including items in the ARR are (except for items used in small population aircraft):

a. Rotatable Pool. A past average monthly repair history of one or more units in 30 days.

b. Attrition Allowance for an item that has qualified for the rotatable pool. A predicted Beyond Capability of Maintenance (BCM) rate of one or more units in 90 days.

B. RECOMPUTATION OF SHORCAL

For the purposes of this study a recent SHORCAL was examined for the NAS Rota, Spain, Supply Department. This SHORCAL included 1576 items which had displayed demand over a twelve-month period prior to the SHORCAL. This SHORCAL was recomputed to include the changes in OST shown above.

1. Following the methodology in the preceding section, it was determined that recomputation of only those items affected by an increase in OST should be addressed. Thus, only items having attrition due to being BCM'd and having qualified as a rotatable pool item were used for review and recalculation.

It should be emphasized here that only net increases of OST were used. Current practice in these ARR's is to ignore the air transport times in the computations of range and depth. Thus, the only OST effect used for these computations

is the net increase identified at the end of the previous chapter.

2. The BCM range rule was applied next. Only those items having a demand $D > 1.0$ or, in other words, having four or more BCMs per year would be considered.

3. The next step was to compute the formula for mean Attrition for Rotatable Pool (ARP) items. For items that passed the range rule, ARP is calculated using the Poisson distribution with a mean equal to:

$$D [1 + \text{OSTI}/90]$$

and a goal of at least 65% protection.

4. The calculated results of the extended OST are then compared with the projected attrition protection previously established by ASO. (column ATTR of Appendix A)

5. If the amount as calculated with the extended OST is higher than the recommended attrition protection, a net increase results.

The increase, if there is one, is multiplied by the Unit Price. The result is the cost required to provide a protection level of at least 65% for the increased OST (OSTI).

The following is provided as an example of an actual computation conducted for this analysis:

The item represented by NIIN # 001488247 was first selected from Appendix A. Next the mean demand over the extended OST was computed using the formula:

$$D [1 + OSTI/90]$$

The value of D is calculated as the number of yearly BCMs divided by four to get the quarterly rate (in this case $11/4 = 2.75$) to arrive at a quarterly forecast. Thus, the extended mean demand is $2.75 [1 + 14/90] = 3.177778$. This number is used as the mean in the Poisson probability distribution to determine a depth of stock n , which provides a protection level of 65%. The protection level is defined as the probability that the total number of attrition demands over 90 days will not exceed n .

Table 2 provides information from the Poisson distribution for this example. The X column is a random variable representing demand per quarter. Column $P(X)$ represents the probability that this demand occurs if X is Poisson distributed with a mean demand of 3.177778. The final column essentially represents the sum of the individual probabilities for $X = 0, 1, 2, \dots, x$.

From the right hand column we see that if $n = 4$ then the probability of 4 or less attrition demands will be 78.46%.

If $n = 3$ then the probability of 3 or less attrition demands will be only 60.75%, which is less than the desired 65% goal.

TABLE 2
POISSON TABLE

X	P(X)	$\Sigma P(X)$
0	0.0417	0.0417
1	0.1324	0.1741
2	0.2104	0.3846
3	0.2229	0.6075
4	0.1771	0.7846
5	0.1125	0.8971
6	0.0596	0.9567
7	0.0271	0.9838
8	0.0107	0.9945
9	0.0038	0.9983
10	0.0012	0.9995
11	0.0003	0.9999
12	0.0001	1.0000

Comparing this to the ASO calculated attrition protection quantity for the same item, we find an increase of 1 unit is needed. The cost of providing at least 65% protection for the item when the additional OST of 14 days is added is the cost of this additional unit. For this item, the increase is \$1500.

Appendix A lists the increases in depth for each item in the SHORCAL meeting the ARP qualifications stated above. The results are listed in the final three columns as follows:

1. The column having the heading of 14/28 day OST represents the ARP depth calculations when OST is both 14 and 28 days.

2. The column with the heading INC 14/28 presents any increase between the ASO calculated ARP listed in the column with the heading ATTR and the ARP calculation results for 14 and 28 day OST's.

3. The column with the heading of UP X INC 14/28 represents the increase in cost which results from the increased depths.

The reason for the dual computations is to show the effect of a change of requirement with increases of both 14 and 28 days OST. This represents the increases in OST experienced at Rota, Spain supply department and NSD Guam, respectively.

C. RESULTS OF RECOMPUTING THE SHORCAL

A total of 73 items in the SHORCAL met all qualifications for consideration, of these 25 items required increases over the ASO determined quantities to meet the established 65% protection level. The values of these items ranged from a low of \$85 per unit of safety/survival material to a high of \$44,560 for an item of P-3 equipment.

1. A total of \$114,942 worth of additional inventory would be required to provide stated 65% protection level with

an estimated 14-day increase in OST which seems appropriate for NAS Rota's rotatable pool attrition allowance.

2. A total of \$151,987 worth of inventory would be required to provide stated 65% protection level with an increase in OST of 28 days which would be appropriate for NSD, Guam.

V. SUMMARY AND CONCLUSIONS

A. SUMMARY

Chapter II provided an overview of the functions and responsibilities of the Navy logistics system, the Navy transportation system and the Navy supply system. It described the Navy logistics system emphasizing broad responsibilities within the organization. Furthermore, it identified organizational responsibilities for the transportation of Navy material. Chapter II then described the Naval supply system, and identified the organizational responsibilities and the methods used in inventory management. This chapter also provided the background necessary for understanding inventory management in the Navy with special attention to the process of AVCAL/SHORCAL allowance determination.

Chapter III examined Navy transportation policy changes and identified the types of material affected, what the effects were in terms of increases in transportation time/Order and Ship Time (OST) and described locations where this could significantly impact inventory levels.

In Chapter IV, a description of the procedures followed in AVCAL/SHORCAL determinations was presented. These procedures were then used to recompute SHORCAL allowances

using recent data obtained from the Aviation Supply Office (ASO). The chapter concluded with a presentation of the results of recomputing the SHORCAL. This recomputation assigned a dollar value to increases in inventory resulting from application of increases in OST.

B. CONCLUSIONS

Although recalculation revealed that application of an Order and Ship Time factor to the SHORCAL did indicate that increases were necessary to maintain consistent protection levels, the corresponding cost of these increases is relatively low. Even the artificial application of a 28 day OST to this SHORCAL revealed only a \$152 thousand cost to meet authorized protection of 65% across the total range of inventory items. Finally, it is important to realize that this will be a one-time cost to increase the levels. Thus, it can be concluded that the transportation policy changes brought about to reduce Servicewide Transportation expenditures will have apparently little effect on the inventory levels and corresponding protection provided.

C. RECOMMENDATIONS FOR AREAS OF FURTHER STUDY

While gathering data to support this thesis it was discovered that no empirical data is formally maintained to identify actual transportation times to overseas locations. Because of this, it was necessary to use estimates of

transportation time increases. Research should be conducted to establish a system for compiling transportation time data which would improve the accuracy of OST factors. These factors should also play a more important role than they do now in the allowance determination process.

This thesis was able to determine the approximate costs for increases in inventory levels that result from increased transportation time at NAS Rota, Spain and NSD Guam. However, no specific transportation cost savings are known that can be attributed to the movement of materials to these locations. These transportation cost savings should be determined prior to making a final conclusion.

Finally, since this thesis focused only on the inventories at NAS Rota Supply Department which were associated with rotatable pool items, it did not address the effect on consumables maintained at the same location. Consumables inventory quantities are determined locally which tends to be more responsive to fluctuations in demand. However, the effect of increases in transportation time/OST on these consumables could represent substantial one-time costs. These increases can be easily determined using the VOSL model.

APPENDIX

The following acronyms are used as headings in the subsequent table. The acronym is followed by its definition.

COG -	Navy Material Cognizance Symbol
MCC -	Mission Criticality Code
FSC -	Federal Stock Code
NIIN -	National Item Identification Number
SMIC -	Special Material Identification Code
BCM -	Beyond Capability of Maintenance
RPR -	# Repaired during one year
TAT -	Turn-Around Time
OLD RQMT -	ATTR POOL + RP + PACK-UP
ATTR POOL -	ASO CALCULATED ATTR POOL QUANTITY
RP -	Rotatable Pool
RECM RQMT -	RECOMMENDED REQUIREMENT
14/28 DAY OST -	RECOMMENDED ATTR POOL WITH 14/28 DAY OST APPLIED
INC 14/28 -	14/28 DAY OST MINUS ATTR POOL QUANTITY
UP -	Unit Price
UP X INC 14/28	-UNIT PRICE TIMES INC 14/28

COG	C	M	FSC	NIIN	SMIC	PRICE	BCM	RFR	TAT	OLD	ATTR	POOL	RP	RECM	14/28		UP
															DAY	INC	
										ROMT				ROMT	OCT	14/28	14/28
7R	H		2925	LLRANA685	TN	\$46880	2	0	0	16	0	0	0	0			
7R	H		5975	000000120	JZ	\$939	0	1	8	7	0	0	0	1			
7R	H		6635	000011821	SX	\$521	1	0	0	0	0	0	0	0			
7R	H		6635	000011822	SX	\$1050	1	0	0	1	0	0	0	1			
7R	H		5821	000011888	EP	\$17100	0	4	.75	7	0	0	0	1			
7R	H		6635	000014534	SX	\$632	2	0	0	1	1	0	0	1			
7R	H		6635	000014535	SX	\$651	1	0	0	1	0	0	0	1			
7R	H		6635	000014536	SX	\$691	1	0	0	1	0	0	0	1			
7R	H		6635	000014539	SX	\$829	1	0	0	0	0	0	0	0			
7R	H		6635	000014540	SX	\$632	1	0	0	1	0	0	0	1			
7R	H		7035	000014584	EP	\$4100	0	1	0	1	0	0	0	1			
7R	H		5865	000014614	EP	\$8860	0	26	2.34	10	0	0	2	3			
7R	H		5865	000014627	EP	\$5220	0	1	1.0	5	0	0	0	1			
7R	H		5865	000016609	EW	\$1100	0	1	2.0	2	0	0	0	2			
7R	H		5831	000016612	EP	\$611	0	6	1.0	1	0	0	0	1			
7R	H		5831	000016615	EP	\$622	0	1	1.0	1	0	0	0	1			
7R	H		5831	000016618	EP	\$611	0	14	.78	1	0	0	0	1			
7R	H		5831	000016619	EP	\$611	0	2	2.5	1	0	0	0	1			
7R	H		5831	000016621	EP	\$611	0	1	1.0	1	0	0	0	1			
7R	H		6625	000019702	EP	\$2330	1	0	0	1	0	0	0	1			

COG	C	FSC	NTIN	UNIT	BCM	RPR	TAT	OLD	ATTR	RP	RECH	14/28	UP
				SMIC	PRICE			ROUT	POOL		ROUT	DAY	X
												OCT	INC
													14/28
7R	E	6620	000203211	BP	\$2600	33	0	23	17	0	17		
7R	H	5821	000206104	EX	\$669	1	0	1	0	0	1		
7R	E	6620	000212239	BP	\$875	12	0	9	6	0	6		
7R	H	5821	000214742	EX	\$823	0	2	1.0	0	0	0		
7R	H	2840	000218168	DQ	\$1030	12	0	0	5	0	5		
7R	H	2840	000218170	DQ	\$1100	11	0	0	5	0	5		
7R	H	4810	000223115	SN	\$1600	2	0	2	1	0	2		
7R	E	5930	000227504	RX	\$673	3	0	0	1	0	2		
7R	H	5865	000252617	EP	\$3720	0	1	1.0	0	0	1		
7R	E	5865	000252725	EP	\$9830	1	1	20.0	0	1	5		
7R	H	5963	000252944	EP	\$652	0	1	1.0	0	1	4		
7R	H	5865	000252957	EW	\$931	0	2	1.5	0	0	4		
7R	H	5865	000259903	EP	\$10430	0	1	1.0	0	0	1		
7R	H	5865	000260066	EP	\$16920	0	1	4.0	0	0	3		
7R	E	5895	000261221	BP	\$15620	4	0	0	2	0	2		
7R	H	1680	000298969	EP	\$5220	0	1	1.0	0	0	1		
7R	H	1680	000299004	EP	\$5220	0	1	1.0	0	0	1		
7R	H	1680	000299005	EP	\$5220	0	1	12.0	0	0	1		
7R	H	5865	000299123	EP	\$3270	0	1	1.0	0	0	0		
7R	H	5831	000299205	EP	\$2370	0	3	7.33	0	1	1		

COG	C	M	FSC	NIIN	UNIT	SMIC	PRICE	BOH	RPR	TAT	OLD	ATTR	POOL	EP	RECH	14/28		UP
																DAY	INC	X
											ROMT				ROMT	OCT	14/28	INC
7R	H		5831	000299208	EP	\$1690	0	1	1	1.0	1	0	0	0	1			
7R	H		5865	000299252	EP	\$2610	0	2	.5	.5	5	0	0	0	1			
7R	H		5865	000299255	EP	\$5880	0	1	1.0	1.0	1	0	0	0	1			
7R	H		5865	000299256	EP	\$13040	0	3	3.33	3.33	5	0	0	0	1			
7R	H		5865	000299291	EP	\$42210	0	3	2.66	2	0	0	0	0	2			
7R	E		1610	000309552	LC	\$70400	5	7	13.42	4	2	2	2	4		2/2	0/0	0/0
7R	H		5895	000309902	BP	\$404	3	2	18.0	3	0	1	2					
7R	H		5895	000323299	FP	\$1220	0	1	1.0	0	0	0	0	0	0			
7R	H		5895	000323307	FP	\$1500	0	3	7.33	0	0	1	1	1				
7R	H		5821	000323564	EP	\$6900	1	0	0	0	1	0	0	1	1			
7R	H		5821	000323566	EP	\$4830	1	0	0	0	0	1	0	1	1			
7R	H		5821	000323583	EW	\$1860	5	0	0	0	2	3	0	3				
7R	H		5821	000323592	EW	\$513	0	1	5.0	3	0	0	0	1	1			
1R	D		2840	000337236	SN	\$399	1	2	.5	.5	0	0	0	0	0			
7R	H		5841	000338367	EP	\$152650	0	15	1.4	9	0	1	5					
7R	H		6130	000366237	EP	\$948	1	0	0	0	6	1	0	6				
7R	H		5895	000366527	FX	\$1820	2	15	1.6	-	-	-	-	-				
7R	H		5821	000366565	EW	\$24670	13	65	1.89	13	7	3	10			4/5	0/0	0/0
7R	H		5821	000366658	EP	\$536	1	0	0	0	1	1	0	1				
7R	H		5865	000379947	EP	\$16290	0	2	3.7	2	0	0	0	2				

COG	M C	FSC	NTIN	UNIT		BCH	RPR	TAT	OLD RQMT	ATTR POOL	RECH RQMT	14/28		UP X INC 14/28
				SMIC	PRICE							DAY	INC	
7R	H	5865	000379962	EP	\$11080	0	4	2.5	1	0	0	1		
7R	H	5865	000379976	EP	\$8890	0	2	1.0	1	0	0	1		
7R	H	5865	000379979	EP	\$40630	0	1	1.0	2	0	0	2		
7R	H	5835	000379985	EP	\$55840	0	10	1.2	10	0	0	1		
7R	H	5865	000380020	EP	\$47550	0	2	1.0	1	0	0	1		
7R	H	5831	000380024	EP	\$783	0	1	1.0	1	0	0	1		
7R	H	7035	000380033	EP	\$14820	6	0	0	5	3	0	3		
7R	H	7035	000380141	EP	\$11850	5	0	0	7	3	0	3		
7R	H	5865	000380570	EP	\$3000	1	0	0	6	1	0	4		
7R	E	5821	000409112	EW	\$26450	4	11	1.27	14	2	0	2	1/2	0/0
1R	D	2840	000421326	SN	\$399	1	3	6.66	0	0	0	0		
1R	D	2840	000421421	SN	\$3100	1	0	0	1	0	0	0		
7R	H	5821	000423405	EX	\$2570	0	7	4.85	5	0	1	2		
1R	D	2840	000426896	SN	\$1110	4	0	0	0	1	0	1		
7R	E	5895	000431987	EX	\$5410	4	5	6.2	3	3	1	6	1/2	0/0
7R	E	5895	000431990	EX	\$1170	1	0	0	1	0	0	7		
7R	E	2995	000453347	BP	\$7790	22	0	0	16	11	0	11		
1R	D	5995	000462414	SN	\$1600	1	0	0	0	0	0	0		
1R	D	1560	000464300	BA	\$1210	1	0	0	6	0	0	0		
7R	E	5821	000504288	EX	\$2020	6	12	7.16	3	3	2	5	2/2	0/0

COG	C	M	FSC	NIIN	UNIT	SMIC	PRICE	BCM	RFR	TAT	OLD	ATTR	POOL	RP	RECM	14/28		UP
																DAY	OST	INC
																		14/28
7R	H		5831	000508617	FZ	\$503		0	5	2.0	1	0	0	0	0			X
7R	H		5831	000508618	FZ	\$707		0	2	1.0	2	0	0	0	0			INC
7R	H		4140	000512620	LC	\$1870		1	0	0	1	0	0	0	0			14/28
1R	D		4720	000525599	DA	\$423		1	2	1.0	0	0	0	0	0			
7R	H		1630	000528403	LC	\$5590		0	11	18.36	5	0	3	3	3			
7R	H		6220	000565284	BP	\$4220		0	1	1.0	0	0	0	0	0			
7R	H		5841	000580356	BP	\$1450		0	2	4.5	0	0	0	0	0			
7R	E		5895	000592726	EX	\$2500		0	3	.33	1	0	0	0	0			
1R	D		2840	000596427	SN	\$1680		2	0	0	0	1	0	1	1			
1R	D		2840	000596429	SN	\$2310		3	0	0	0	1	0	1	1			
1R	D		2840	000596466	SN	\$784		0	1	1.0	0	0	0	0	0			
1R	D		2840	000596586	SN	\$666		0	1	1.0	0	0	0	0	0			
1R	D		2840	000596659	SN	\$930		0	1	20.0	0	0	0	0	0			
7R	H		2840	000598964	SN	\$6420		3	4	5.25	0	0	0	0	0			
1R	D		2840	000599891	SN	\$2610		3	0	0	0	1	0	1	1			
7R	E		6615	000605103	BP	\$29630		6	1	0	6	3	0	3	3	2/2	0/0	0/0
7R	E		5865	000605424	EP	\$64860		2	38	3.71	10	0	3	3	3			
1R	D		1670	000606679	LX	\$249		26	0	0	17	17	0	17	0			
7R	H		6130	000606813	EP	\$1970		0	4	1.0	8	0	0	0	16			
7R	E		6615	000613131	FZ	\$2460		1	0	0	0	1	0	0	3			

COG	C	FSC	NTIN	SMIC PRICE	UNIT	BCM	RPR	TNT	OLD RQMT	ATTR POOL	RFP	RECH RQMT	14/28		UP
													DAY	INC	X
													OCT	14/28	14/28
7R	E	2620	000614108	YX \$105		109	0	0	58	49	0	49			
7R	E	1660	000620301	LC \$4360		3	0	0	1	1	0	1			
7R	H	6110	000636882	2X \$1780		1	3	.66	5	1	0	1			
1R	D	5865	000639300	BP \$931		0	1	17.0	1	0	0	0			
1R	D	5865	000639303	BP \$298		0	1	1.0	1	0	0	0			
7R	H	5865	000639306	BP \$4540		0	4	15.0	1	0	2	2			
1R	D	6625	000639305	BP \$935		0	1	1.0	0	0	0	0			
7R	H	2995	000640196	BA \$3820		2	0	0	6	1	0	1			
7R	H	4810	000652898	LC \$599		5	3	1.0	1	1	0	1	2/2	1/1	599/599
7R	H	1650	000658214	LC \$4810		1	0	0	1	0	0	0			
7R	H	5865	000675831	BP \$10700		1	9	3.55	2	0	1	1			
1R	D	6615	000701827	BP \$277		0	2	7.0	1	0	0	0			
7R	H	1680	000705993	BP \$1790		2	0	0	1	1	0	1			
7R	H	4320	000711681	BP \$1110		3	0	0	0	1	0	1			
7R	H	4320	000711743	BP \$1600		7	0	0	0	1	0	1			
7R	H	4320	000711745	BP \$776		6	0	0	2	1	0	1			
7R	E	5821	000725454	F2 \$11290		2	79	3.07	11	0	3	3			
1R	D	1680	000730795	BP \$316		0	17	1.35	2	0	1	1			
1R	D	1680	000730796	BP \$397		0	10	1.6	1	0	0	0			
7R	H	1680	000738204	LC \$3690		5	2	1.5	2	2	0	2	2/2	0/0	0/0

COG	C	M	FSC	NIIN	SMIC	PRICE	BCM	RPR	TNT	OLD RMT	ATTR POOL	RP	RECH RMT	14/28			UP
														DAY	INC	14/28	
7R	E		1660	000750576	BP	\$649	5	0	0	3	3	0	3				
7R	E		1630	000751976	BP	\$2240	8	110	2.03	28	3	3	6	3/3	0/0		0/0
7R	E		6645	000763050	UX	\$846	32	4	1.25	7	12	0	12	10/12	0/0		0/0
1R	D		5865	000764086	BP	\$2750	0	1	1	0	0	0	0				
7R	E		4320	000783516	FN	\$4050	2	0	0	3	1	0	1				
7R	E		1660	000794564	FZ	\$1220	0	26	3.11	21	0	2	2				
1R	D		1660	000794629	BP	\$329	0	1	9	0	0	0	0				
7R	H		5826	000818325	FZ	\$2190	0	1	0	0	0	0	0				
7R	H		4820	000821384	SN	\$5240	1	0	0	1	0	0	1				
1R	D		2840	000823228	SN	\$1410	0	1	3	0	0	0	0				
1R	D		2840	000823289	SN	\$2320	1	0	0	0	0	0	0				
1R	D		2840	000823296	SN	\$2070	2	0	0	0	1	0	1				
7R	H		5865	000827556	EP	\$8890	0	4	6.5	6	0	1	1				
7R	H		5841	000842542	BP	\$1870	0	1	20	0	0	0	0				
1R	D		6130	000842544	BP	\$1040	0	2	1	1	0	0	0				
7R	E		1660	000846707	LC	\$7840	4	0	0	2	1	0	1				
7R	H		1660	000846708	LC	\$8840	1	0	0	1	0	0	0				
7R	E		4810	000851104	BP	\$2580	2	34	3.85	12	0	2	2				
7R	E		1630	000852632	BP	\$1140	5	0	0	1	1	0	1				
7R	H		1610	000864993	BP	\$1220	0	3	7.33	1	0	0	0				

COG	C	M	FSC	MIIN	SMIC	UNIT PRICE	BCM	RPR	TAT	OLD RMT	ATTR POOL	RP	RECH RMT	14/28		UP
														DAY	INC	X INC
														OST	14/28	14/28
7R	E		6605	000870628	FZ	\$2500	0	23	1.08	15	0	1	1			
7R	E		6615	000870629	FZ	\$5020	16	7	0	15	5	0	5	5/6	0/1	0/5020
1R	D		5821	000871504	FZ	\$306	0	3	.33	0	0	0	0			
7R	E		5821	000875518	FZ	\$7000	1	1	1	2	0	0	1			
7R	E		5841	000876089	PZ	\$31740	3	46	3.58	11	0	3	3			
7R	H		2925	000888997	PQ	\$4880	1	0	0	1	0	0	1			
1R	D		4220	000897620	LX	\$85	71	34	2.55	22	12	2	14	22/25	10/13	850/1105
7R	E		6130	000898034	AZ	\$1760	1	7	4.42	3	0	1	3			
7R	E		5821	000898134	FZ	\$4260	1	37	5.13	11	0	3	3			
7R	H		5865	000903616	EP	\$5220	0	2	4.5	5	0	0	1			
7R	H		5865	000903715	EP	\$1570	0	1	1	5	0	0	1			
7R	H		5865	000910457	EP	\$605	4	0	0	3	4	0	7			
1R	D		5965	000910653	EP	\$598	0	1	1	3	0	0	0			
7R	H		5831	000910948	EP	\$1690	0	8	7.62	5	0	2	2			
7R	H		5821	000911412	EP	\$1780	1	0	0	1	1	0	1			
1R	D		2835	000916354	RX	\$2450	0	2	1.5	0	0	0	0			
1R	D		6610	000917323	WX	\$343	1	0	0	0	0	0	0			
7R	H		5821	000926300	EP	\$1970	0	4	1	5	0	0	1			
7R	H		5865	000956436	EP	\$652	1	0	0	1	1	0	1			
7R	H		2915	000973458	SN	\$482	1	0	0	2	0	0	2			

COG	C	M	FSC	NLTN	SMIC	PRICE	BCM	RFR	TMT	OLD	ATTR	POOL	RP	RECM	14/28		UP
															DAY	INC	X
										RMT				RMT	OST	14/28	14/28
7R	E		5841	001030406	LC	\$9110	2	0	0	1	1	1	0	1			
7R	H		5865	001062723	EP	\$136770	0	1	1	1	0	0	0	1			
7R	H		5865	001062732	EP	\$29790	0	10	.8	2	0	0	0	1			
7R	H		5865	001078917	EP	\$4150	0	1	6	1	0	0	0	1			
7R	E		1377	001094606	LX	\$904	13	0	0	1	2	0	0	2			
7R	E		5826	001100938	TZ	\$8890	0	12	7	1	0	2	2	2			
7R	E		5821	001101119	FP	\$137440	0	50	3.9	7	0	3	3	3			
7R	E		5821	001101616	FP	\$73730	12	14	4.28	5	5	2	2	7	4/5	0/0	0/0
7R	H		5821	001101719	FP	\$14340	0	3	2	1	0	0	0	0			
7R	E		5821	001101722	FP	\$40300	1	7	4.28	1	0	1	1	1			
7R	E		5821	001101748	FP	\$19430	6	2	1	1	3	0	0	3	2/2	0/0	0/0
7R	E		5841	001104882	WZ	\$2250	4	0	0	1	2	0	0	2			
7R	H		5865	001105552	EP	\$1310	0	2	10.5	6	0	1	1	1			
7R	E		5985	001105664	FP	\$26400	1	20	5.75	2	0	2	2	2			
7R	H		5865	001106082	EW	\$14820	0	26	1.61	20	0	2	2	8			
7R	E		5845	001108626	FP	\$11340	0	5	2.6	1	0	0	0	0			
7R	E		6115	001129255	RX	\$14480	3	0	0	1	1	0	1	1			
7R	H		2915	001133540	PQ	\$4710	2	0	0	1	1	0	1	1			
7R	H		5895	001151031	AZ	\$1360	0	2	1	1	0	0	0	2			
7R	H		5895	001151035	AZ	\$940	1	0	0	0	1	0	0	1			

COG	C	FSC	NTIN	UNIT	SMIC	PRICE	BCM	RPR	TAT	OLD	RQMT	ANTR	POOL	RP	RECH	RQMT	14/28		UP	
																	DAY	INC	INC	14/28
																	OCT			
7R	H	5895	001151036	AZ	\$325	0	2	13.5	0	1	1	0	0	1	1					
7R	E	5821	001155533	FP	\$1450	2	0	0	1	1	0	1	1	0	1					
7R	H	5821	001155553	FP	\$1420	0	1	1	0	0	0	0	0	0	0					
7R	H	5821	001155560	FP	\$3230	0	1	1	0	0	0	0	0	0	0					
7R	E	5841	001159289	BP	\$4320	0	4	18	1	0	2	2	2	2						
7R	E	5841	001159290	BP	\$5780	9	0	0	3	4	0	4								
7R	E	5841	001159291	BP	\$10220	13	1	1	1	1	7	0	7	0	7		4/5	0/0	0/0	0/0
7R	H	5841	001159292	BP	\$9090	1	0	0	1	0	0	0	0	0	0					
7R	H	5841	001159295	BP	\$12840	1	0	0	1	0	0	0	0	0	0					
7R	E	5841	001159339	BP	\$10870	0	4	7	4	0	1	1	1	1	1					
7R	H	5841	001159342	BP	\$2680	1	0	0	1	0	0	0	0	0	0					
7R	H	5841	001161219	BP	\$1580	0	1	2	0	0	0	0	0	0	0					
7R	H	5841	001161221	BP	\$15720	0	1	1	1	1	0	0	0	0	0					
7R	H	5815	001161241	BP	\$488	1	0	0	0	1	0	1	0	1	1					
7R	H	5815	001161266	BP	\$1690	1	0	0	0	0	0	0	0	0	0					
7R	E	6610	001164020	BP	\$10580	12	0	0	8	5	0	5	0	5	5					
7R	H	5985	001166340	FP	\$2630	0	2	18	1	0	1	0	1	1	1					
7R	H	5985	001166354	FP	\$23710	6	3	6.66	1	3	0	3	0	3	3		2/2	0/0	0/0	0/0
7R	E	5895	001167501	AZ	\$430	0	2	2	1	0	0	0	0	0	3					
7R	H	5821	001167531	FP	\$31400	0	2	1.5	2	0	0	0	0	0	0					

COG	C	M	FSC	MLN	SMIC	PRICE	BCM	RPR	TAT	OLD	RQMT	ATTN	POOL	RP	RECH	RQMT	14/28		UP
																	DAY	INC	
																	CST	14/28	14/28
7R	E		2915	001167578	PQ	\$32010	1	0	0	3	3	0	0	0	3				
7R	H		5841	001174086	BP	\$1420	0	1	20	2	2	0	0	0	0				
7R	E		5895	001174115	A2	\$9940	1	2	4.5	3	3	1	0	5	5				
7R	E		5895	001174118	A2	\$6660	5	2	16	2	2	3	1	4	4		2/2	0/0	0/0
7R	H		5865	001174198	BA	\$13780	0	1	20	0	0	0	1	1	1				
7R	E		5826	001174629	FP	\$11300	7	0	0	5	4	0	0	4	4				
1R	D		4220	001186122	LX	\$259	4	1	2	1	1	1	0	1	1		1/2	0/1	0/259
1R	D		2925	001186133	PQ	\$270	1	0	0	0	0	0	0	0	0				
1R	D		5831	001186196	BA	\$10040	0	1	15	4	4	0	0	0	0				
7R	H		5831	001189016	RP	\$1220	0	2	1	1	1	0	0	0	0				
7R	H		5845	001189020	BP	\$2090	2	0	0	0	0	1	0	1	1				
7R	E		5835	001195585	BP	\$66610	0	1	20	0	0	0	0	0	0				
7R	H		5835	001195672	EP	\$5410	0	2	2.5	5	5	0	0	1	1				
7R	H		5865	001195692	EW	\$8150	11	4	3	5	5	5	0	5	5		4/4	0/0	0/0
1R	D		5826	001195695	FX	\$1400	0	3	7.33	1	1	0	1	1	1				
7R	H		2925	001195698	PQ	\$1430	1	0	0	0	0	0	0	0	0				
7R	H		1560	001197275	EP	\$7590	0	1	20	0	0	0	1	1	1				
1R	D		2840	001218660	SN	\$3210	0	1	1	1	1	0	0	1	1				
7R	E		2840	001219169	PQ	\$98720	2	0	0	0	0	0	0	0	0				
7R	H		5895	001232303	BP	\$1530	3	0	0	7	7	1	0	3	3				

COG	C	M	FSC	MIIN	SWIC	PRICE	BCM	RPR	TAT	OLD	ATTR	RQMT	RQMT	14/28	INC	14/28	UP	X	INC	14/28	14/28
7R	H		5841	001234811	LC	\$1030	0	4	15.25	0	0	2	2								
7R	H		6130	001234813	LC	\$2010	0	7	12	2	0	2	2								
7R	H		1650	001241579	BP	\$4100	1	0	0	0	0	0	0								
1R	D		6605	001249037	FP	\$1280	0	2	1	0	0	0	0								
7R	H		5895	001259455	EW	\$1440	0	1	3	1	0	0	1								
7R	E		1660	001259619	FP	\$589	6	0	0	1	3	0	3								
7R	E		2840	001263077	SN	\$16000	0	1	18	1	0	0	1								
7R	E		2840	001263078	SN	\$15540	2	1	6	1	0	0	1								
7R	H		1560	001264054	EP	\$40570	1	0	0	0	0	0	0								
7R	E		2840	001281374	PQ	\$4310	1	0	0	1	0	0	1								
7R	E		5845	001296521	BP	\$6110	0	4	3.75	0	0	0	0								
1R	D		5841	001298170	BP	\$941	0	3	7.66	2	0	1	1								
7R	H		5895	001323575	FP	\$11170	0	1	3	0	0	0	0								
7R	H		5895	001326831	FP	\$3740	0	1	1	0	0	0	0								
7R	H		5895	001326839	FP	\$4330	0	5	4.6	0	0	1	1								
7R	E		5895	001331666	FP	\$589	1	0	0	0	0	0	0								
7R	E		5895	001331695	FP	\$2660	0	3	1	0	0	0	0								
7R	H		5895	001331703	FP	\$1660	0	1	1	0	0	0	0								
7R	E		6610	001337868	FZ	\$1430	4	0	0	0	2	0	2								
7R	H		5821	001339130	EW	\$771	1	0	0	1	0	0	0								

COG	C	FSC	NIN	UNIT	BCM	EPR	TAT	OLD	ATTR	RP	RECH	14/28		UP
												DAY	INC	
				SMIC PRICE				ROMT	POOL		ROMT	OCT	14/28	14/28
7R	H	5895	001339179	FP \$3080	0	1	9	0	0	0	1			
7R	E	5841	001339183	LC \$19040	1	46	4.15	18	0	3	3			
7R	H	5821	001339603	EP \$6840	1	0	0	1	0	0	1			
7R	H	5865	001339939	EW \$1200	1	0	0	1	0	0	1			
7R	H	5865	001340266	EW \$2540	3	0	0	-	-	-	-			
7R	H	5865	001340302	EW \$2480	1	0	0	2	1	0	1			
7R	E	4920	001341325	TX \$10610	1	0	0	0	0	0	1			
7R	H	5831	001341357	EP \$2730	0	1	1	1	0	0	1			
7R	E	5821	001341530	FP \$10030	8	0	0	1	4	0	4			
7R	E	5821	001346238	FZ \$13990	0	1	1	1	0	0	0			
7R	E	5821	001346240	FZ \$9070	0	42	3.97	9	0	3	7			
7R	H	5865	001350861	EP \$10470	2	1	1	1	1	0	1			
7R	H	5895	001359524	FP \$752	0	1	1	0	0	0	0			
7R	H	2840	001385542	SW \$11430	1	0	0	1	0	0	1			
7R	H	5826	001387799	FP \$3760	1	0	0	0	0	0	0			
7R	H	5826	001388153	FP \$39490	0	5	1	0	0	0	0			
7R	H	2840	001389329	PQ \$717	1	0	0	1	0	0	1			
7R	E	2840	001389394	PQ \$11280	3	0	0	0	1	0	1			
7R	E	5841	001389617	BP \$77750	3	19	1.94	2	1	1	2			
7R	H	2840	001396094	DQ \$1050	20	0	0	16	7	0	7			

COG	C	M	FSC	NTIN	UNIT		ECM	RPR	TAT	OLD RQMT	ATTR POOL	RP	RECH RQMT	14/28		INC 14/28	UP X INC 14/28
					SMIC	PRICE								DAY	CST		
7R	H		6685	001400105	FZ	\$938	2	0	0	3	1	0	1				
7R	E		5841	001401729	CS	\$139320	0	3	9	6	0	1	2				
7R	E		5821	001401775	JZ	\$8780	0	3	7.33	1	0	1	2				
7R	H		5998	001407844	AZ	\$365	1	3	10.66	2	0	1	3				
7R	H		5895	001407847	AZ	\$272	0	4	7.75	1	0	1	3				
7R	E		2620	001425161	LC	\$651	23	0	0	20	7	0	7				
1R	D		6615	001462274	FP	\$673	0	1	1	0	0	0	0				
7R	H		2840	001465535	SN	\$2240	5	0	0	0	1	0	2				
7R	H		2840	001465536	SN	\$900	3	0	0	0	1	0	1				
7R	H		5826	001476073	TZ	\$677	1	0	0	0	1	0	1				
7R	E		5826	001476074	TZ	\$2170	3	0	0	0	1	0	1				
7R	H		5821	001485860	EP	\$652	0	2	17.5	2	0	2	2				
7R	E		5841	001486158	WZ	\$977	4	0	0	0	1	0	1				
7R	H		5841	001486159	WZ	\$1010	1	0	0	0	0	0	0				
7R	H		5841	001486170	WZ	\$1590	1	0	0	0	0	0	0				
7R	E		1650	001487565	FP	\$34940	6	0	0	0	3	0	3				
7R	E		6685	001488247	LC	\$1500	11	6	6.83	2	3	2	5	4/4	1/1	1500/1500	
7R	E		2925	001490760	SN	\$25820	1	0	0	1	0	0	9				
7R	E		5895	001491319	AZ	\$7820	3	55	3.45	15	2	3	5				
7R	H		5985	001491451	EX	\$741	8	0	0	1	2	0	2				

COG	C	M	FSC	NIIN	UNIT	SMIC	PRICE	BCH	RPR	TAT	OLD	ATTR	POOL	RP	RECH	14/28		UP	
																DAY	CST		INC
7R	E		5826	001525089	TZ	\$5900		5	0	0	0	3	0	0	3				
7R	H		5826	001525090	TZ	\$1770		1	0	0	0	1	0	0	1				
7R	E		5826	001525091	TZ	\$3430		1	0	0	0	1	0	0	1				
7R	E		5826	001525092	TZ	\$1280		1	0	0	0	1	0	0	1				
7R	E		5826	001525095	TZ	\$4850		1	0	0	0	1	0	0	1				
7R	H		5821	001554571	FP	\$3910		3	0	0	0	1	0	0	1				
7R	H		5865	001559483	EW	\$1580		0	2	10.5	1	0	1	1	1				
7R	E		5841	001564428	FP	\$7360		0	1	17	0	0	0	0	0				
7R	E		5821	001564933	EX	\$11040		11	0	0	1	4	0	0	4				
7R	H		5841	001565481	BP	\$7070		0	1	1	0	0	0	0	0				
7R	E		5821	001568597	FP	\$33150		1	10	7.7	1	0	2	2	2				
7R	E		5865	001574009	FP	\$2030		0	6	12	4	0	2	2	2				
1R	D		5826	001602136	EX	\$106		3	21	10	10	0	2	34					
7R	H		5895	001604014	BP	\$493		5	1	0	2	1	0	1	1		2/2	1/1	493/493
7R	H		5865	001622954	EP	\$652		1	0	0	4	0	0	0	12				
1R	D		4820	001635301	FN	\$541		2	0	0	1	1	0	1	1				
7R	E		6130	001644224	FZ	\$2590		2	11	4.36	7	0	2	2	2				
7R	E		6610	001655827	FZ	\$7710		25	0	0	8	10	0	0	10				
7R	E		6610	001655838	FZ	\$5110		3	0	0	3	1	0	0	1				
7R	E		6655	001680394	BP	\$8670		0	5	8.6	3	0	1	1	1				

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7R H 5865 001726112

7R H 4110 001737438

7R H 5895 001744444

7R E 1650 001761954

7R H 1610 001763258

7R E 5826 001771484

7R E 6125 001774611

7R H 6615 001792349

7R H 5845 001793212

7R H 5845 001793276

1R D 5820 001793935

7R H 5865 001794692

7R E 5865 001794693

7R E 2915 001800982

7R H 5831 001807999

7R E 5821 001808250

7R E 6610 001811746

7R E 6615 001812334

1R D 1560 001825664

7R E 6615 001827698

EP \$11830 0

EP \$10530 3

FP \$9120 1

BP \$2600 2

BP \$2260 1

FX \$9010 0

FZ \$1950 0

BF \$1660 0

BP \$8330 0

BP \$1470 0

FP \$954 0

BP \$3030 0

BP \$6030 2

SN \$11940 3

EP \$6600 0

JZ \$1020 1

FZ \$2020 4

FZ \$6970 5

BP \$102 1

BP \$12160 26

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COG	C	M	FSC	NIIN	SMIC	PRICE	BCM	RPR	TNT	OLD RQMT	ATTR POOL	RP	RECH RQMT	14/28		UP
														DAY	INC	X
														OST	14/28	14/28
7R	E		5895	002765469	FP	\$20090	0	2	5.5	0	0	0	0			
7R	H		5895	002765480	FP	\$1020	0	3	4	0	0	0	0			
7R	H		5895	002777384	FP	\$14850	0	2	1	1	0	0	0			
7R	H		5895	002831668	BP	\$1250	0	1	20	0	0	0	0			
7R	H		4820	002880595	SN	\$1480	1	0	0	1	0	0	1			
7R	H		4140	002894277	LC	\$456	0	13	3.38	1	0	2	2			
7R	E		2915	003013364	DQ	\$4080	3	0	0	1	1	0	1			
7R	H		1650	003051674	BA	\$510	1	0	0	4	0	0	0			
7R	H		1650	003051681	BA	\$573	0	1	20	1	0	1	1			
7R	H		5826	003094185	FX	\$1120	2	0	0	0	1	0	1			
7R	H		6615	003158625	LC	\$4650	0	2	1	1	0	0	0			
7R	H		6645	003188861	BA	\$1050	10	0	0	8	4	0	4			
7R	H		6680	003191710	BP	\$887	0	1	0	1	0	0	0			
7R	H		6680	003191711	BP	\$795	3	0	0	1	1	0	1			
7R	H		6680	003191722	BP	\$912	0	6	2	5	0	0	0			
7R	E		6680	003191723	BP	\$1050	3	3	1	1	1	0	1			
7R	H		5826	003230206	FZ	\$485	0	3	.66	4	0	0	0			
7R	H		6340	003247612	DX	\$569	0	3	.66	4	0	0	0			
7R	H		1650	003306212	BA	\$1200	0	1	10	0	0	0	0			
7R	H		1610	003323851	BP	\$15010	0	2	1	0	0	0	0			

COG	C	M	FSC	NIIN	UNIT	SMIC	PRICE	BCM	RPR	TAT	OLD	ATTR	POOL	RP	RECH	14/28		UP
																DAY	OCT	INC
14/28	DAY	OCT	INC	14/28	UP	X	INC	14/28	UP	X	INC	14/28	UP	X	INC	14/28	UP	X
7R	H	6615	003346724	BA	\$1270	0	1	1	1	0	0	0	0	0	0	0	0	0
7R	H	6615	003346725	BA	\$1310	0	3	.66	1	0	0	0	0	0	0	0	0	0
7R	H	2925	003355994	FN	\$2780	3	0	0	4	1	0	1	0	1	0	1	0	1
7R	H	1660	003392195	LC	\$5770	1	0	0	0	0	0	0	0	0	0	0	0	0
1R	D	6105	003420656	BP	\$1510	4	0	0	1	3	0	3	0	3	0	3	0	3
1R	D	5841	003422116	EX	\$199	0	1	1	0	0	0	0	0	0	0	0	0	0
7R	H	5841	003422329	FX	\$723	1	2	1.5	1	1	0	1	0	1	0	1	0	1
1R	D	1560	003427602	BA	\$5740	0	3	1	4	0	0	0	0	0	0	0	0	0
7R	H	1650	003461293	BA	\$633	1	0	0	0	0	0	0	0	0	0	0	0	0
7R	H	6615	003483842	UX	\$10640	6	1	0	1	2	0	2	0	2	0	2	0	2
7R	E	1630	003707322	BA	\$6000	8	12	1.91	23	3	1	4	0/0	0/0	0/0	0/0	0/0	0/0
7R	H	6615	003710392	UX	\$381	0	2	10.5	1	0	1	1	0	1	1	0	0	0
7R	H	6615	003710544	BA	\$1950	0	4	9.5	1	0	2	2	0	2	0	2	0	2
7R	H	1620	003738044	LC	\$1230	1	0	0	1	0	0	0	0	0	0	0	0	0
1R	D	1730	003932886	BP	\$2110	1	0	0	0	0	0	0	0	0	0	0	0	0
7R	E	5845	004003272	BP	\$908	0	4	12.5	1	0	2	2	0	2	0	2	0	2
7R	E	6130	004003274	BP	\$13990	0	8	13	1	0	2	2	0	2	0	2	0	2
1R	D	6130	004003282	BP	\$3410	0	3	9.66	0	0	1	1	0	1	0	1	0	1
7R	H	6130	004003301	BP	\$4220	0	1	10	0	0	0	0	0	0	0	0	0	0
7R	H	6130	004003303	BP	\$514	0	2	1.5	0	0	0	0	0	0	0	0	0	0

COG	C	M	FSC	NIIN	UNIT		BCM	RPR	TAT	OLD RQMT	ATTR POOL	RP	RECH RQMT	14/28		INC	UP
					SMIC	PRICE								DAY	OST		
7R	H		6130	004003304	BP	\$1890	1	1	4	0	0	0	0				X
7R	H		6130	004003305	BP	\$993	0	4	11.5	0	0	2	2				INC
1R	D		6130	004003306	BP	\$648	0	1	1	0	0	0	0				14/28
7R	E		5845	004003322	BP	\$2300	0	1	2	1	0	0	0				
7R	E		5985	004009548	FZ	\$2620	2	1	7	2	1	0	1				
7R	H		5865	004014921	FP	\$60110	3	0	0	0	1	0	1				
7R	H		1680	004037549	FP	\$467	1	0	0	0	1	0	1				
7R	H		4820	004041982	PQ	\$269	1	0	0	1	0	0	1				
7R	H		6110	004046165	FP	\$1630	0	1	20	1	0	0	0				
7R	H		6110	004046166	FP	\$1630	0	1	1	1	0	0	0				
7R	E		6615	004048073	FP	\$10270	0	10	7.8	4	0	2	2				
7R	H		5821	004098411	BP	\$3190	0	2	21	1	0	1	1				
7R	H		1650	004100874	LC	\$4150	1	0	0	0	0	0	0				
7R	E		5845	004201318	BP	\$2090	0	4	4.25	1	0	0	0				
7R	H		5845	004201323	BP	\$2200	0	1	1	1	0	0	0				
7R	H		5845	004201326	BP	\$2490	0	1	1	1	0	0	0				
7R	E		5845	004201328	BP	\$3070	0	9	5.55	3	0	2	2				
7R	H		5845	004201329	BP	\$8270	0	2	.5	0	0	0	0				
7R	H		5845	004201355	BP	\$1010	0	1	1	0	0	0	0				
7R	H		5845	004201374	BP	\$7490	0	1	1	0	0	0	0				

COG	C	M	FSC	NLIN	SMIC	UNIT PRICE	BCM	RFR	TAT	OLD RQMT	ATTR POOL	RFP	RQMT	14/28		UP
														DAY	INC	
														OCT	14/28	14/28
7R	H		5841	004487170	LC	\$920	0	4	10.25	1	0	2	2			
7R	H		5841	004487171	LC	\$988	0	8	12.62	1	0	2	2			
7R	H		5865	004503907	FP	\$2640	1	0	0	1	0	0	0			
7R	H		5865	004503916	FP	\$819	1	0	0	0	0	0	0			
7R	H		6130	004503928	FP	\$13710	1	0	0	1	0	0	0			
7R	H		5865	004503930	FP	\$6580	1	0	0	0	0	0	0			
7R	H		5865	004503938	FP	\$10670	2	0	0	1	1	0	1			
7R	E		6685	004504489	LC	\$807	4	0	0	1	1	0	1			
7R	E		5990	004507304	FP	\$1640	0	13	9.23	2	0	2	2			
7R	H		5841	004536003	FP	\$5800	1	0	0	0	0	0	0			
7R	E		5998	004559903	BP	\$6770	0	44	2.75	5	0	2	2			
7R	H		5998	004559904	BP	\$5370	1	2	1.5	1	0	0	0			
7R	H		5841	004562243	FP	\$4620	0	1	20	0	0	0	0			
7R	E		5895	004581363	FX	\$8180	1	40	6.37	6	0	3	3			
7R	H		6130	004588372	FP	\$4800	1	0	0	1	0	0	0			
7R	E		6610	004594578	FP	\$11660	1	0	0	1	1	0	1			
7R	E		5960	004612604	FP	\$7720	1	0	0	1	0	0	0			
7R	E		6130	004615371	FP	\$2680	2	0	0	1	1	0	1			
7R	E		6110	004629698	BP	\$972	0	13	3.38	1	0	2	2			
7R	H		5821	004646280	FP	\$1820	0	1	20	1	0	0	0			

COG	C	M	FSC	MLIN	SMIC	PRICE	BCM	RPR	TAT	OLD RMT	ATTR POOL	RP	RECM RMT	14/28		UP X
														DAY	INC	
														OST	14/28	14/28
7R	H		5821	004646288	FP	\$1170	0	1	1	0	0	0	0			
7R	E		2915	004646938	DQ	\$2610	5	0	0	6	2	0	2			
7R	E		2915	004646946	DQ	\$3000	2	0	0	0	1	0	1			
7R	H		5895	004650429	FP	\$842	1	0	0	0	0	0	0			
7R	E		2995	004708080	LC	\$3420	11	0	0	1	3	0	3			
7R	E		6625	004713174	AZ	\$2340	7	10	.4	9	4	0	4		0/0	0/0
7R	E		1680	004757338	BA	\$1370	0	1	1	7	0	0	0			
1R	D		1660	004759979	DA	\$363	1	4	3.75	21	0	0	0			
7R	E		5985	004760538	FZ	\$2530	0	7	3.85	8	0	1	1			
1R	D		2990	004779868	SX	\$466	0	1	16	1	0	0	1			
1R	D		5945	004802059	RX	\$266	0	1	20	1	0	0	1			
7R	H		5821	004805945	FP	\$791	1	0	0	0	1	0	1			
7R	H		5895	004811477	AZ	\$975	1	0	0	0	1	0	1			
7R	H		5895	004815003	AZ	\$575	2	3	15.33	0	0	2	2			
1R	D		1560	004838716	BP	\$593	1	0	0	1	0	0	0			
7R	H		6680	004860549	EQ	\$3880	2	0	0	1	1	0	1			
7R	H		1660	004874531	BP	\$668	1	1	1	0	0	0	0			
7R	H		6110	004874552	FP	\$1350	0	1	12	1	0	0	0			
7R	E		5895	004898673	FP	\$2620	1	0	0	1	1	0	2			
7R	H		5821	004915648	FP	\$1820	0	1	13	1	0	0	0			

COG	C	M	C	FSC	NTIN	SMIC	PRICE	BCM	EPR	TAT	OLD RQMT	ATTR POOL	RP	RECH RQMT	14/28		UP X
															DAY	OST	INC 14/28
1R	D			6110	004915788	FP	\$152	0	4	3.25	1	0	0	0			
7R	E			4810	004917893	TX	\$869	3	0	0	0	1	0	1			
7R	H			2840	004918988	SN	\$2110	1	0	0	0	0	0	0			
7R	H			5821	004940784	FP	\$2800	1	0	0	1	1	0	1			
7R	E			5835	004947196	BP	\$863	0	1	20	1	0	0	0			
7R	H			4920	004973098	AZ	\$449	2	0	0	0	1	0	1			
7R	H			8120	004974692	LC	\$177	4	0	0	0	1	0	1			
7R	H			6110	005004189	BA	\$1050	0	3	1.33	5	0	0	0			
7R	H			5985	005019430	EP	\$16490	0	6	1	12	0	0	2			
7R	E			5826	005050992	EX	\$1540	4	36	4.3	7	1	3	4	1/2	0/1	0/1540
7R	H			5826	005051675	EX	\$103	0	7	6.14	1	0	2	2			
7R	H			5895	005051772	LC	\$606	0	1	20	1	0	0	0			
7R	H			5826	005051873	EX	\$159	1	2	1	0	1	0	1			
7R	H			5841	005052785	FX	\$461	0	1	2	1	0	0	0			
7R	H			5826	005053094	FZ	\$1230	0	2	0	4	0	0	1			
7R	E			5826	005053140	FZ	\$1160	7	0	0	7	2	0	2			
7R	H			5826	005071381	EX	\$173	1	9	6	1	0	2	2			
1R	D			5945	005081815	RX	\$231	1	0	0	1	0	0	1			
7R	H			1650	005087109	LC	\$1110	2	0	0	1	1	0	1			
7R	H			5865	005103795	BA	\$4650	1	0	0	0	0	0	0			

COG	C	FSC	NTIN	SMIC	UNIT PRICE	BCM	RPR	TNT	OLD RQMT	ATTR POOL	RP	RQMT	14/28		UP
													DAY	INC	X
													OCT	14/28	14/28
7R	E	5841	005103947	BP	\$39300	2	1	1	1	1	0	1			
7R	H	1630	005105461	LC	\$528	2	0	0	1	1	0	1			
7R	H	1650	005113192	BA	\$1460	1	1	20	4	0	1	1			
7R	H	5826	005119023	KZ	\$1690	0	1	1	0	0	0	0			
7R	H	1650	005125933	BA	\$1760	1	0	0	0	0	0	0			
7R	H	1650	005125949	BA	\$2510	2	1	18	4	1	0	1			
7R	H	5990	005126367	EX	\$720	0	3	15	1	0	2	4			
7R	E	6610	005153324	FZ	\$1070	2	0	0	1	1	0	1			
7R	E	6605	005154834	FZ	\$2060	13	0	0	17	6	0	6			
7R	H	5865	005162872	BA	\$42130	1	20	.4	5	0	0	0			
1R	D	1680	005167279	YX	\$688	1	0	0	0	0	0	0			
1R	D	1670	005169994	BA	\$726	33	0	0	14	6	0	6			
7R	E	2620	005171263	BA	\$334	25	0	0	24	9	0	9			
7R	H	5825	005195849	EX	\$402	2	0	0	6	1	0	1			
7R	E	6615	005214893	LC	\$1100	12	0	0	1	4	0	4			
7R	E	5960	005239752	BP	\$3390	5	0	0	3	3	0	3			
7R	H	6615	005240202	FP	\$4290	0	1	20	1	0	0	0			
7R	E	6615	005240245	BP	\$14970	2	0	0	3	1	0	1			
1R	D	6615	005240246	BP	\$2100	0	1	1	0	0	0	0			
7R	E	6615	005240249	FP	\$10930	0	2	11	1	0	1	1			

COG	C	FSC	NIIN	UNIT	SMIC	PRICE	BCM	RPR	TAT	OLD	ATTR	RP	RECH	14/28	DAY	CST	INC	14/28	UP	X	INC	14/28
1R	D	6615	005240263	BP	\$190	0	1	1	1	0	0	0	0	0								
1R	D	4820	005248443	DA	\$260	1	2	20	4	4	0	2	2	2								
7R	H	6610	005268361	UX	\$2520	1	0	0	4	4	0	0	0	0								
7R	E	4810	005283666	DQ	\$564	5	0	0	1	1	1	0	1	1								
7R	H	2915	005323560	BA	\$703	2	0	0	4	4	1	0	1	1								
7R	H	5821	005336182	BP	\$3630	4	0	0	0	0	3	0	3	3								
1R	D	5826	005356629	LC	\$2576	0	2	1	1	1	0	0	0	0								
1R	D	2840	005364742	SN	\$3880	1	0	0	1	1	0	0	0	0								
1R	D	6125	005388785	EX	\$442	19	0	0	1	1	6	0	6	6								
7R	H	1650	005400162	LC	\$4920	4	0	0	1	1	1	0	1	1								
7R	H	5865	005401774	BA	\$1690	1	0	0	1	1	0	0	0	0								
7R	E	2995	005401922	CS	\$6830	1	0	0	0	0	0	0	0	0								
7R	E	4810	005402106	DQ	\$1150	1	0	0	1	1	0	0	0	0								
1R	D	1670	005405851	LX	\$389	8	1	1	1	4	3	0	3	3								
1R	D	4820	005410445	BA	\$144	0	1	1	1	0	0	0	0	0								
7R	H	5841	005431331	FX	\$332	0	1	1	1	5	0	0	0	0								
1R	D	6220	005480008	DX	\$554	0	2	6.5	1	1	0	0	0	0								
7R	H	6620	005519948	UX	\$1030	2	2	0	4	1	0	1	1	1								
7R	H	5826	005521288	EX	\$1050	6	0	0	0	0	2	0	2	2								
7R	H	5865	005524595	BA	\$85480	1	0	0	0	0	0	0	0	0								

0/0

0/0

3/3

COG	C	M	FSC	NIN	UNIT	BCM	RPR	TAT	OLD	ATTR	RPR	RECH	14/28		UP
													DAY	INC	X
					SMIC PRICE				RCMT	POOL		RCMT	CST	14/28	14/28
7R	H		6685	005534726	DH \$904	0	2	0	2	0	0	0			
1R	D		6105	005538519	BA \$734	1	0	0	1	1	0	1			
7R	H		6620	005538827	FZ \$2110	2	0	0	4	1	0	1			
1R	D		2925	005555349	DX \$310	4	0	0	0	1	0	2			
7R	H		6620	005573023	FZ \$1050	2	0	0	4	2	0	2			
7R	H		6610	005580480	UX \$1600	6	2	1.5	4	2	0	2	2/2	0/0	0/0
7R	H		5821	005623480	EX \$1470	1	1	4	1	1	0	1			
1R	D		1660	005623979	BA \$281	5	3	2	8	2	0	2	2/2	0/0	0/0
7R	H		1650	005625277	BA \$2810	1	0	0	4	0	0	0			
7R	H		1630	005641568	BA \$1600	2	0	0	0	1	0	1			
7R	H		6615	005660331	BP \$5130	2	0	0	1	1	0	1			
7R	E		2915	005660334	BP \$3850	7	0	0	2	1	0	1			
7R	E		1680	005660336	BP \$9260	1	0	0	1	0	0	0			
7R	H		2935	005660337	BP \$10320	4	0	0	1	1	0	1			
7R	E		51821	005662980	JZ \$1180	1	0	0	0	0	0	2			
7R	E		5821	005674549	JZ \$2000	4	0	0	1	1	0	2			
7R	H		1650	005684659	BA \$8150	0	1	14	5	0	0	0			
7R	E		6605	005730326	FZ \$6000	4	14	8.07	5	2	2	4	1/2	0/0	0/0
1R	D		6680	005735806	RP \$868	1	0	0	0	0	0	0			
1R	D		6685	005737407	SX \$2680	1	0	0	0	0	0	0			

M C COG	C	FSC	NTIN	UNIT		BCM	RFR	TAT	OLD RQMT	ATTR POOL	RP	RECH RQMT	14/28		UP X INC
				SMIC	PRICE								DAY	OST	
7R	E	1630	005756334	BA	\$5300	1	0	0	0	0	0	0			
1R	D	1560	005861395	BA	\$779	1	0	0	0	0	0	0			
7R	H	1680	005870623	BA	\$1620	2	0	0	1	1	0	1			
1R	D	2915	005876943	BA	\$1010	1	0	0	1	1	0	1			
7R	H	6615	005908359	BA	\$1110	1	1	0	1	1	0	1			
7R	H	2915	005917034	BA	\$908	1	0	0	4	0	0	0			
1R	D	1660	005917151	BA	\$623	2	4	1.75	7	1	0	1			
7R	H	5821	005925059	FZ	\$307	3	0	0	0	1	0	1			
7R	H	6680	005928596	BA	\$1990	2	1	1	4	1	0	1			
7R	E	6680	005933684	BA	\$1990	0	2	.5	4	0	0	0			
7R	E	6680	005933688	BA	\$8270	5	1	0	7	2	0	2			
1R	D	4920	005956880	BP	\$934	1	0	0	0	0	0	0			
7R	H	6115	006005991	BA	\$2480	11	1	1	11	4	0	4		4/4	0/0
7R	H	4820	006012784	SN	\$687	1	0	0	1	0	0	1			
7R	H	6620	006027192	DA	\$5220	2	0	0	4	0	0	0			
7R	E	5821	006043307	FZ	\$16750	1	21	3.76	15	0	2	2			
7R	H	4810	006048517	BA	\$1440	9	0	0	7	3	0	3			
7R	H	5821	006048638	EX	\$952	0	2	1.5	0	0	0	2			
1R	D	2915	006052027	BA	\$891	1	0	0	4	0	0	0			
7R	H	2840	006053212	SN	\$2330	2	0	0	0	1	0	1			

COG	C	FSC	NIN	UNIT	BCM	RPR	TAT	OLD	ATTN	RPT	14/28		UP
											DAY	INC	
				SMIC PRICE				RMT	POOL	RP	OST	14/28	X INC 14/28
7R	H	2840	006053213	SN \$4940	2	0	0	1	1	0			1
7R	H	6615	006058496	LC \$19070	1	32	7.12	1	0	3			3
7R	E	1560	006078103	BA \$12810	1	7	2	6	0	0			0
7R	H	1660	006086953	BA \$1140	1	0	0	4	0	0			0
7R	H	2935	006086974	BA \$1390	1	0	0	4	0	0			0
7R	H	2840	006087627	DQ \$695	1	3	.66	1	0	0			0
7R	H	1660	006095593	BA \$1560	3	0	0	4	1	0			1
1R	D	1560	006105190	BA \$607	1	0	0	0	1	0			1
7R	H	1650	006122696	LC \$7200	1	0	0	1	0	0			0
7R	H	1560	006133155	BA \$11780	1	1	3	4	0	0			0
7R	H	1630	006140640	BA \$687	0	1	2	4	0	0			0
7R	H	1560	006203206	BA \$1820	0	1	1	0	0	0			0
7R	H	1560	006204230	BA \$5220	0	1	1	1	0	0			0
7R	H	1560	006204231	BA \$7640	0	2	2.5	4	0	0			0
7R	H	6685	006212906	LC \$215	6	1	0	1	2	0			2
7R	H	1610	006227973	BP \$1040	0	4	.75	1	0	0			0
1R	D	5841	006236246	BP \$1800	0	1	8	1	0	0			0
7R	H	6130	006258208	CS \$3950	3	0	0	1	1	0			1
7R	H	5895	006258227	CS \$1010	1	0	0	0	0	0			0
7R	H	1630	006258396	LC \$137	3	0	0	1	1	0			1

COG	C	M	FSC	NIIN	UNIT	BCM	RPR	TAT	OLD	ATTR	RP	RECH	14/28		UP
													DAY	INC	X
					SMIC	PRICE			POW	POOL		POW	OST	14/28	14/28
7R	H		1630	006258399	LC	\$456	2	0	0	1	0	1	0	1	
7R	E		5826	006259201	EX	\$740	0	20	3.75	9	0	2	4		
7R	E		2915	006263123	DQ	\$842	3	0	0	2	1	0	1		
7R	H		2935	006278425	BA	\$4290	1	0	0	1	0	1	1		
7R	H		5865	006283655	EP	\$4100	2	0	0	1	0	1	1		
7R	E		6105	006287433	LC	\$1170	3	0	0	1	0	1	1		
7R	H		1650	006288280	BA	\$1690	1	0	0	0	0	0	0		
7R	H		1650	006288282	BA	\$1690	0	1	0	8	0	0	0		
7R	H		1650	006288299	BA	\$2100	0	1	20	4	0	1	1		
1R	D		1560	006288400	BA	\$158	0	12	2.66	9	0	1	1		
7R	H		1650	006288507	BA	\$822	1	0	0	4	1	0	1		
1R	D		1620	006288542	BA	\$1330	1	0	0	1	0	1	1		
7R	E		2840	006299195	DQ	\$1820	2	0	0	1	0	1	1		
7R	E		6620	006308812	DA	\$2830	4	0	0	8	2	0	2		
7R	H		4820	006309302	BA	\$1390	2	0	0	4	1	0	1		
7R	H		2915	006327932	LC	\$878	4	1	0	1	0	1	1		
1R	D		2840	006328153	DQ	\$148	1	1	20	1	0	0	0		
1R	D		2840	006328154	DQ	\$161	1	0	0	1	0	0	0		
7R	H		1650	006331394	BA	\$1530	11	0	0	7	4	0	4		
7R	H		6685	006334265	PQ	\$1610	1	0	0	1	0	0	1		

M C COG	C	FSC	MIIN	SMIC	UNIT PRICE	BCM	RFR	TAT	OLD RQMT	ATTR POOL	RP	RECM RQMT	14/28		UP X INC 14/28
													DAY CST	INC 14/28	
7R	E	6620	006336850	BA	\$2060	20	0	0	10	7	0	7			
7R	H	6125	006358795	EX	\$326	0	3	1	0	0	0	0			
7R	H	1680	006408819	XX	\$1340	1	0	0	5	1	0	1			
7R	H	5821	006470527	EX	\$1490	0	1	8	1	0	0	1			
7R	E	6110	006498835	LC	\$6180	2	0	0	2	1	0	1			
7R	E	5841	006531683	EX	\$1770	0	36	1.66	17	0	2	2			
7R	H	2915	006537572	LC	\$785	2	0	0	1	1	0	1			
7R	H	6680	006539836	BA	\$1540	4	18	5.77	10	1	2	3		1/2	0/1540
7R	E	6605	006541550	BP	\$7100	0	20	1.35	0	0	1	1			
7R	H	4320	006543617	DQ	\$8440	1	0	0	0	0	0	0			
7R	H	1560	006547345	BA	\$1220	0	2	10.5	5	0	1	1			
7R	N	6130	006582853	BA	\$8280	0	3	1.33	3	0	0	0			
7R	H	1680	006583515	BA	\$1640	2	0	0	4	1	0	1			
7R	H	2840	006585728	DQ	\$937	1	0	0	0	0	0	0			
7R	E	4920	006591339	A2	\$9080	3	0	0	1	1	0	1			
7R	H	6645	006634103	UX	\$918	2	0	0	4	1	0	1			
1R	D	2915	006702544	DA	\$725	1	0	0	0	0	0	0			
7R	H	2915	006702685	BA	\$3730	1	0	0	4	0	0	0			
7R	H	6680	006705130	BA	\$1120	1	0	0	4	1	0	1			
7R	H	6680	006705131	BA	\$1780	3	0	0	4	1	0	1			

COG	C	M	FSC	NIIN	SMIC	PRICE	BCM	RFR	TAT	OLD	ATTR	RP	RECH	14/28		UP
														DAY	INC	X
										ROUT	POOL		ROUT	OCT	14/28	14/28
1R	D		2995	006717128	LC	\$1810	0	4	15.75	4	0	2	2			
7R	H		4320	006724168	LC	\$1340	1	0	0	1	0	0	0			
7R	H		1560	006726868	BA	\$1360	0	7	1.71	1	0	0	0			
7R	N		2995	006732727	LC	\$2680	0	5	10.2	0	0	2	2			
7R	H		5826	006738224	BP	\$3310	8	1	11	1	4	0	4	3/3	0/0	0/0
7R	H		5826	006738226	BP	\$1150	0	1	1	1	0	0	0			
7R	H		4140	006742856	EX	\$566	0	1	12	0	0	0	0			
1R	D		5826	006747086	BP	\$551	0	3	0	1	0	0	0			
7R	H		1620	006749069	LC	\$2270	1	0	0	1	1	0	1			
7R	H		5826	006750489	EX	\$782	0	1	1	0	0	0	0			
7R	H		6610	006753330	FZ	\$1500	10	2	.5	4	3	0	3	3/4	0/1	0/1500
7R	H		5945	006757413	LC	\$1200	0	1	1	1	0	0	0			
7R	H		6615	006762609	LC	\$3340	4	0	0	1	1	0	1			
7R	H		6615	006763828	LC	\$249	0	2	1.5	0	0	0	0			
7R	H		6115	006786319	LC	\$8620	1	0	0	3	0	0	0			
7R	E		1630	006880232	DH	\$589	4	0	0	0	1	0	1			
7R	E		5826	006899780	FZ	\$1810	0	1	0	0	0	0	0			
7R	H		5985	006905949	LC	\$15320	1	5	4.8	3	0	1	1			
7R	E		5841	006905951	LC	\$14430	1	37	3.1	3	0	2	2			
7R	H		1660	006906150	LC	\$2340	1	0	0	0	0	0	0			

COG	C	M	FSC	NIIN	SMIC	UNIT PRICE	BCM	RPR	TAT	OLD RPT	ATTR POOL	RP	RECM RPT	14/28		UP
														DAY	INC	X
														CST	14/28	14/28
7R	H		1650	006963801	LC	\$139	1	0	0	1	1	0	1			
7R	H		4310	006967633	LC	\$4220	2	0	0	0	1	0	1			
7R	H		6615	006975674	UX	\$1380	5	0	0	1	2	0	2			
7R	H		6105	006985927	LC	\$1070	2	0	0	2	1	0	1			
1R	D		5821	007007284	FZ	\$2250	0	1	1	1	0	0	0			
7R	H		4810	007060266	LC	\$2530	2	5	7	2	0	1	1			
7R	E		2915	007062719	DQ	\$9700	2	0	0	2	1	0	1			
7R	H		6615	007118898	LC	\$6800	5	0	0	1	1	0	1			
7R	H		1680	007161451	BA	\$4780	0	9	1	3	0	0	0			
7R	E		2835	007162024	RX	\$1350	3	1	20	3	1	0	1			
1R	D		5841	007163534	BP	\$2930	0	1	1	0	0	0	0			
1R	D		5895	007172377	BP	\$613	0	1	1	0	0	0	0			
1R	D		5895	007175234	BP	\$1050	0	1	1	0	0	0	0			
7R	H		5990	007178111	UX	\$1840	3	0	0	2	1	0	1			
7R	H		1610	007178228	BP	\$569	0	4	12.5	1	0	2	2			
1R	D		1560	007178521	BA	\$1990	0	1	1	0	0	0	0			
7R	H		1650	007195513	BA	\$5830	1	0	0	1	0	0	0			
7R	E		6610	007196441	DA	\$4960	8	0	0	3	3	0	3			
7R	E		6610	007196882	FZ	\$1300	5	0	0	9	3	0	3			
7R	H		1660	007199381	DA	\$2250	2	1	0	4	1	0	1			

M C	COG	C	FSC	NIIN	SMIC	PRICE	BCH	RPR	TAT	OLD RMT	ATTR POOL	RP	RECH RMT	14/28		UP X
														DAY	OST	INC 14/28
7R	E		1680	007199635	BA	\$4310	2	16	3.68	4	0	2	2			
7R	H		1560	007199751	BA	\$14080	0	1	1	0	0	0	0			
7R	E		6620	007203223	LC	\$3600	1	0	0	4	0	0	0			
7R	H		6610	007203237	FZ	\$1410	2	0	0	5	1	0	1			
7R	H		4320	007203911	BA	\$4450	1	1	0	8	1	0	1			
7R	H		5841	007230550	FX	\$1340	0	1	3	0	0	0	0			
7R	E		5835	007232505	BP	\$26380	0	57	1.98	0	0	2	2			
7R	H		5845	007233889	BP	\$2130	1	10	2.5	2	0	1	1			
7R	H		5845	007233890	BP	\$1520	0	2	1	0	0	0	0			
7R	H		5845	007233893	BP	\$1890	0	1	2	0	0	0	0			
1R	D		5930	007236107	BP	\$1750	0	1	8	0	0	0	0			
7R	E		4310	007236193	BP	\$2280	0	2	3.5	1	0	0	0			
7R	E		5841	007236195	BP	\$4400	0	7	2.14	2	0	0	0			
1R	D		6110	007236337	BP	\$459	0	1	6	0	0	0	0			
1R	D		6110	007236339	BP	\$257	0	2	8	0	0	0	0			
1R	D		5841	007236357	BP	\$802	0	1	1	1	0	0	0			
1R	D		5841	007236362	BP	\$186	0	8	1.87	2	0	0	0			
1R	D		4140	007236418	BP	\$1640	0	11	2.36	7	0	1	1			
7R	E		1630	007237683	BA	\$5670	9	26	2.03	15	3	2	5		3/3	0/0
7R	E		2835	007240088	FZ	\$53270	2	0	0	3	1	0	1			0/0

COG	C	M	FSC	NIIN	SMIC	UNIT PRICE	BCM	RPR	TAT	OLD RQMT	ATTR POOL	RFP	RECH RQMT	14/28		UP
														DAY	INC	X
														OST	14/28	14/28
7R	H		1660	007240138	BA	\$2070	2	0	0	7	1	0	1			
7R	H		1560	007240816	BA	\$20820	1	2	1	1	0	0	0			
7R	H		1560	007240817	BA	\$12770	0	1	2	1	0	0	0			
1R	D		1650	007283396	LC	\$1319	2	1	1	0	1	0	1			
7R	E		5826	007291250	FZ	\$765	0	6	1	1	0	0	0			
7R	H		6610	007294292	BA	\$2150	2	0	0	4	1	0	1			
7R	H		5841	007300593	BP	\$9690	0	3	10.33	0	0	1	1			
7R	E		5841	007300594	BP	\$59740	2	30	3.13	3	0	2	2			
7R	H		4810	007303551	LC	\$2240	2	0	0	2	1	0	1			
7R	H		5841	007303903	BP	\$1080	0	1	1	0	0	0	0			
1R	D		6220	007319772	DX	\$939	0	46	5.17	10	0	4	4			
7R	H		6615	007354848	BA	\$4310	19	0	0	7	7	0	7			
7R	H		6615	007354851	BA	\$3650	10	0	0	1	4	0	4			
7R	H		6615	007354854	BA	\$2530	3	0	0	1	1	0	1			
7R	E		1680	007354856	LC	\$9680	1	0	0	1	0	0	0			
7R	E		5845	007384912	BP	\$41970	1	0	0	0	0	0	0			
7R	E		5821	007385992	FZ	\$787	0	1	1	1	0	0	1			
7R	H		2915	007393047	LC	\$4430	1	0	0	1	0	0	0			
7R	H		1680	007395066	BA	\$8800	1	0	0	0	0	0	0			
7R	E		6605	007403989	FZ	\$1280	1	5	6.4	1	0	1	1			

COG	C	M	FSC	NIIN	SMIC	PRICE	BCM	RPR	TNT	OLD	RMT	ANTR	POOL	RP	RECM	RMT	14/28		UP
																	DAY	INC	
																	OST	14/28	14/28
7R	H		4810	007498896	DQ	\$1770	1	3	7.33	1	1	0	1	1	1				X
7R	H		5821	007519471	EX	\$1680	3	2	9	2	2	2	0	0	2				INC
1R	D		5895	007547307	FX	\$106	0	1	0	0	0	0	0	0	0				14/28
7R	E		6620	007564423	DQ	\$555	2	0	0	1	1	1	0	1	1				
7R	E		1650	007569892	LC	\$2030	0	1	13	1	1	0	0	0	0				
1R	D		2995	007569914	LC	\$1300	0	4	12.25	4	0	2	2	2	2				
7R	H		2840	007575107	DQ	\$939	17	0	0	30	7	0	7	0	7				
7R	E		1620	007587974	BA	\$7300	1	0	0	1	0	0	0	0	0				
7R	E		2995	007588047	BP	\$2150	0	14	9.42	3	0	2	2	2	2				
7R	E		6610	007597170	BP	\$29060	6	0	0	3	3	0	3	0	3				
7R	E		6605	007598492	FZ	\$3220	0	6	10.33	7	0	2	2	2	2				
7R	E		4320	007602691	SX	\$1070	2	0	0	1	1	0	1	0	1				
7R	H		6615	007615936	LC	\$1040	5	1	0	1	1	1	0	1	1				
7R	E		1610	007645622	BP	\$15200	1	67	2.34	9	0	3	3	3	3				
7R	H		5865	007649458	EW	\$652	0	1	1	1	1	0	0	0	0				
1R	D		1650	007672241	BP	\$1660	0	1	12	5	0	0	0	0	0				
7R	E		5895	007710583	EX	\$2150	3	0	0	1	2	0	2	0	2				
7R	H		6130	007728567	LC	\$1150	4	0	0	2	1	0	1	0	1				
7R	H		6615	007738493	LC	\$7940	3	0	0	1	1	1	0	1	1				
7R	E		1630	007765962	BA	\$15080	3	1	20	12	1	1	1	1	2				

COG	C	M	FSC	NIIN	UNIT		BCM	RPR	TAT	OLD	ATTR		RPM	14/28		INC	14/28	UP
					SMIC	PRICE					RPM	POOL		DAY	CST			
7R	E		2835	007774035	SX	\$83040	4	0	0	1	1	1	0	1				
7R	H		1660	007836159	LC	\$8130	4	0	0	2	1	0	0	1				
1R	D		2945	007844208	DQ	\$80	1	3	1	1	0	0	0	0				
1R	D		5930	007847967	DA	\$708	0	1	8	1	0	0	0	1				
7R	E		5841	007869523	EX	\$1370	0	31	1	16	0	1	1	1				
1R	D		1660	007877696	BA	\$357	4	3	3	0	1	0	0	1				
7R	E		5826	007885273	FZ	\$1810	0	1	0	0	0	0	0	0				
7R	H		1650	007885465	BP	\$19170	1	0	0	1	0	0	0	0				
7R	M		1660	007886229	BA	\$2460	2	0	0	4	1	0	1	1				
7R	H		2915	007900277	BA	\$1050	3	2	10	8	1	1	1	2				
7R	H		1650	007901441	LC	\$2980	1	0	0	0	0	0	0	0				
1R	D		6130	007912511	FZ	\$444	0	5	2.4	1	0	0	0	0				
7R	H		6130	007912512	FZ	\$1720	0	10	4.8	1	0	2	2	2				
7R	H		1660	007931564	LC	\$7890	5	0	0	2	1	0	1	1				
7R	H		1660	007936559	LC	\$8100	0	1	2	0	0	0	0	0				
7R	H		6615	007936947	BA	\$6660	0	25	10.44	7	0	4	4	4				
7R	E		1680	007964742	BA	\$1150	0	4	.75	4	0	0	0	0				
7R	E		1610	007980740	BP	\$1960	0	10	12	3	0	2	2	2				
7R	H		5841	007998488	LC	\$840	0	5	8.4	2	0	2	2	2				
7R	H		6615	008002544	BP	\$4760	0	1	1	1	0	0	0	0				

COG	C	M	FSC	NIIN	SMIC	PRICE	BCM	RPR	TMT	OLD	ATTR	POOL	RP	RECH	14/28		UP
															DAY	OST	X
7R	H		1560	008023054	BP	\$755	1	12	1.08	2	0	0	0	0			INC
1R	O		1560	008024300	BP	\$385	0	14	1.92	1	0	1	1	1			INC
1R	O		1560	008024301	BP	\$397	0	8	3.5	1	0	1	1	1			INC
1R	D		1560	008024948	BP	\$788	0	1	1	1	0	0	0	0			INC
7R	H		5831	008028947	BP	\$10510	0	1	1	1	0	0	0	0			INC
7R	H		5831	008036365	BP	\$2690	0	6	1.16	1	0	0	0	0			INC
1R	D		1730	008036716	SX	\$323	2	0	0	1	1	0	2	2			INC
7R	H		1650	008043608	BP	\$7100	1	1	7	2	0	0	0	0			INC
7R	H		5841	008047159	LC	\$5170	0	3	11.67	1	0	1	1	1			INC
7R	H		1610	008057593	LC	\$1990	1	0	0	1	0	0	0	0			INC
7R	H		1610	008057596	BP	\$2780	0	1	1	0	0	0	0	0			INC
7R	E		5895	008100136	AZ	\$11970	0	8	.87	2	0	0	0	0			INC
7R	N		6620	008117614	LC	\$429	0	3	6	1	0	0	0	0			INC
7R	H		4140	008145758	LC	\$1790	0	1	18	1	0	0	0	0			INC
7R	E		6680	008157282	BP	\$1840	3	35	5.05	16	0	3	3	3			INC
7R	E		6680	008157284	BP	\$4020	1	3	1.33	1	0	0	0	0			INC
7R	E		6680	008157285	BP	\$3230	1	3	2	7	0	0	0	0			INC
7R	E		1660	008187701	BP	\$2730	2	0	0	1	1	0	1	1			INC
7R	E		1650	008214048	BP	\$11920	0	2	13	1	0	1	1	1			INC
7R	E		1650	008214051	BP	\$6250	4	0	0	2	1	0	1	1			INC

COG	C	H	FSC	NIIN	UNIT	SMIC	PRICE	BCM	RPR	TNT	OLD	ATTN	POOL	RP	RECH	DAY	14/28	INC	14/28	UP	X	INC	14/28
7R	E		1560	008214081	RP	\$7470		0	20	1.9	2	0	0	1	1								
7R	E		1560	008214082	RP	\$9650		0	29	2.68	2	0	0	2	2								
1R	D		5841	008214520	LC	\$1174		1	9	10.88	2	0	0	2	2								
7R	H		6620	008214663	BA	\$914		1	1	0	4	0	0	0	0								
7R	E		2995	008223053	BP	\$4250		0	28	5.46	8	0	3	3	3								
7R	E		2995	008223056	BP	\$1280		1	1	20	1	0	0	0	0								
7R	E		2915	008223059	BP	\$1680		1	0	0	1	0	0	0	0								
7R	E		1660	008223344	BP	\$1300		1	10	7.7	9	0	2	2	2								
1R	D		4820	008223357	BP	\$158		0	1	16	1	0	0	0	0								
7R	E		5945	008223858	BP	\$891		2	0	0	1	1	0	1	1								
7R	H		5841	008241204	P2	\$1800		0	1	14	1	0	0	0	0								
1R	D		5865	008245912	BP	\$234		2	0	0	1	1	1	0	1								
7R	H		1630	008254794	LC	\$6340		1	9	9.11	2	0	2	2	2								
7R	H		6105	008291763	BP	\$1280		2	0	0	1	1	1	0	1								
7R	E		2840	008303362	DQ	\$4780		7	0	0	1	1	1	0	1								
7R	E		6610	008305832	LC	\$9250		2	3	13.33	2	0	2	2	2								
7R	H		1680	008310374	LC	\$2860		3	0	0	1	1	1	0	1								
7R	E		6605	006335087	F2	\$788		5	1	0	1	3	0	3	3								
7R	E		2620	008346673	YX	\$215		20	0	0	48	6	0	6	6								
1R	D		6625	008424796	BE	\$2280		1	0	0	0	0	0	0	0								

COG	C	FSC	MTIN	SMIC	UNIT PRICE	BCM	RPR	TAT	OLD RQMT	ATTR POOL	RP	RECH RQMT	14/28		UP
													DAY	INC	X
													CST	14/28	14/28
7R	H	6610	008444871	F2	\$1110	1	0	0	-	-	-	-			
7R	H	5841	008454243	LC	\$11210	2	0	0	2	1	0	1			
7R	H	5821	008458915	EX	\$2460	0	6	11.16	1	0	2	2			
7R	H	5821	008458986	FX	\$645	0	3	1.66	1	0	0	1			
7R	H	5821	008458990	EX	\$3510	3	2	10.5	1	2	0	2			
1R	D	5841	008469048	LC	\$792	0	3	1.66	0	0	0	0			
1R	D	5895	008488581	A2	\$294	0	1	6	1	0	0	3			
7R	H	2995	008489839	FW	\$16630	1	0	0	4	0	0	0			
7R	H	2995	008489871	FW	\$12200	1	3	3	4	0	0	0			
7R	E	5826	008490055	EX	\$3320	2	13	3.92	1	0	2	2			
7R	H	2995	008493000	LC	\$509	0	1	0	0	0	0	0			
7R	H	5841	008512604	LC	\$5260	0	1	20	1	0	0	0			
7R	E	5826	008533882	K2	\$833	0	2	8	1	0	0	0			
7R	H	6605	008559315	FX	\$2070	3	0	0	1	2	0	2			
7R	E	2995	008580378	BP	\$1860	1	10	5.6	2	0	2	2			
1R	D	3020	008580872	EX	\$1780	0	1	12	1	0	0	0			
1R	D	6220	008580915	BP	\$3030	1	14	5.92	6	0	2	2			
1R	D	6220	008582455	EP	\$318	0	7	2	8	0	0	0			
7R	E	1680	008584466	BP	\$18330	0	3	2	2	0	0	0			
7R	H	1680	008584468	BP	\$16420	0	5	1.6	2	0	0	0			

COG	C	M	FSC	NIN	SMIC	PRICE	BCM	RPR	TAT	OLD	ATTR	POOL	RP	RECH	14/28		UP
															DAY	OST	INC
7R	H		5945	008584485	BP	\$1420	0	5	1.8	1	0	0	0	0			14/28
7R	H		1650	008588741	BA	\$1650	1	0	0	1	1	0	0	1			X
7R	E		1680	008603934	LC	\$10910	0	2	1	0	0	0	0	0			INC
7R	E		1610	008625524	BP	\$558	0	51	10.52	9	0	5	5	5			14/28
7R	H		5841	008627108	BP	\$3570	0	4	13.5	0	0	2	2	2			
7R	H		5820	008636142	EW	\$1080	1	0	0	1	0	0	0	0			
7R	E		2840	008661443	PQ	\$12080	2	0	0	3	0	0	3	3			
1R	D		1670	008666878	LX	\$332	7	0	0	3	3	0	3	3			
7R	E		6620	008675785	LC	\$2070	2	0	0	2	1	0	1	1			
7R	H		6615	008687170	BP	\$768	0	1	20	0	0	0	0	0			
7R	E		5821	008687528	EX	\$13960	11	1	1	6	4	0	6	6	4/4	0/0	0/0
7R	E		1610	008688836	BP	\$44560	5	16	16.43	9	1	3	4	4	2/2	1/1	44560/44560
7R	H		5841	008695352	PZ	\$2350	0	3	17	1	0	2	2	2			
7R	E		5841	008695353	PZ	\$3910	0	1	1	1	0	0	0	0			
7R	H		5841	008695354	PZ	\$1510	0	3	8	1	0	1	1	1			
7R	H		1610	008695444	BP	\$573	2	1	3	1	1	0	1	1			
1R	D		5845	008699272	BP	\$1420	0	1	3	0	0	0	0	0			
7R	H		2915	008702599	LC	\$8160	1	0	0	1	0	0	0	0			
7R	H		1660	008709373	LC	\$7920	2	0	0	1	0	0	0	0			
7R	H		4810	008711276	LC	\$622	2	1	20	0	1	0	1	1			

COG	C	M	FSC	NTIN	SMIC	PRICE	BCM	RPR	TAT	OLD	ATTR	RPT	RQMT	14/28	DAY	CST	INC	14/28	UP	X	INC	14/28
7R	H		1560	008721619	BP	\$24540	1	0	0	1	0	0	0	0								
7R	H		5845	008723781	BP	\$10360	0	3	2.33	0	0	0	0	0								
7R	E		2840	008725717	DQ	\$1140	21	0	0	24	7	0	7	0								
7R	H		1650	008727516	LC	\$49080	5	0	0	1	1	0	1	0								
7R	H		1610	008728857	BP	\$832	0	1	1	1	0	0	0	0								
7R	H		1650	008736242	LC	\$1690	2	0	0	0	1	0	1	0								
7R	H		1610	008736251	LC	\$4980	0	4	4.5	1	0	0	0	0								
7R	H		1610	008736412	BP	\$747	0	2	1	1	0	0	0	0								
7R	H		1610	008755009	LC	\$1170	1	1	1	0	0	0	0	0								
7R	E		1660	008760714	BA	\$16240	2	0	0	12	1	0	1	0								
7R	E		5845	008769656	BP	\$2960	9	0	0	4	3	0	3	0								
7R	H		4320	008769682	DQ	\$1130	1	0	0	1	0	0	0	0								
7R	E		2995	008769685	DQ	\$2630	0	1	3	2	0	0	0	0								
7R	H		2925	008769687	DQ	\$1390	1	0	0	1	0	0	0	0								
7R	E		2915	008769689	DQ	\$671	26	0	0	12	7	0	7	0								
7R	H		4320	008769691	DQ	\$8110	3	0	0	2	1	0	1	0								
1R	D		2840	008770093	DQ	\$2160	0	1	3	0	0	0	0	0								
1R	D		2840	008770096	DQ	\$163	0	1	1	0	0	0	0	0								
7R	E		6620	008773266	FZ	\$367	8	4	.25	-	-	-	-	-								
7R	H		4320	008773275	DQ	\$876	1	0	0	1	0	0	0	0								

COG	C	M	FSC	NTIN	UNIT	BCM	RPR	TAT	OLD	ATTR	POOL	RP	RECH	14/28		UP
					SMIC PRICE				ROMT					DAY	INC	X
1R	D		2995	008773644	DQ \$82	2	5	10.8	2	0	0	2	2			14/28
7R	H		2995	008773666	DQ \$362	0	12	10.41	5	0	0	2	2			14/28
7R	E		1680	008784893	BP \$1320	2	0	0	1	1	1	0	1			14/28
7R	H		1680	008784899	BP \$1310	2	0	0	1	1	1	0	1			14/28
1R	D		5841	008793690	BP \$10510	0	2	.5	0	0	0	0	0			14/28
7R	E		5895	008799193	FX \$6680	0	1	17	0	0	0	0	0			14/28
7R	E		6615	008805033	FZ \$3390	4	0	0	2	2	0	0	2			14/28
7R	E		5826	008821203	FZ \$1810	0	2	.5	0	0	0	0	0			14/28
7R	E		5815	008823103	FP \$72010	1	0	0	1	1	1	0	1			14/28
7R	E		2840	008832743	BP \$5400	1	0	0	5	0	0	0	0			14/28
1R	D		1560	008832794	BP \$985	0	2	1.5	1	0	0	0	0			14/28
7R	E		4810	008847571	BP \$2420	12	0	0	3	6	0	0	6			14/28
7R	E		1610	008870118	BP \$4410	11	0	0	1	6	0	0	6			14/28
7R	E		1610	008870119	BP \$6920	9	18	4.27	13	6	2	8	8	3/3	0/0	0/0
7R	E		6645	008870122	BP \$924	0	7	3.57	5	0	1	1	1			14/28
1R	D		1610	008870207	BP \$1060	0	2	6	1	0	0	0	0			14/28
1R	D		1610	008870209	BP \$1380	0	1	1	0	0	0	0	0			14/28
1R	D		1610	008870353	BP \$843	1	0	0	0	0	0	0	0			14/28
7R	E		2915	008871904	BP \$1790	1	0	0	7	0	0	0	0			14/28
7R	E		1680	008871911	BP \$7870	3	8	9.62	6	0	0	2	2			14/28

COG	C	M	FSC	NIN	UNIT	SMIC	PRICE	ECH	RPR	TAT	OLD	ATTR	RP	RECH	14/28		INC	UP
															DAY	OST	14/28	X
7R	H		1660	008871913	BP	\$22120	1	0	0	0	2	0	0	0				14/28
7R	E		2915	008871915	BP	\$9630	1	0	0	0	1	0	0	0				X
7R	E		1630	008871916	BP	\$5310	1	0	0	0	1	0	0	0				INC
7R	E		1680	008871919	BP	\$2580	2	8	5.62	2	0	2	2	2				14/28
7R	H		5826	008871938	BP	\$5210	0	24	8	8	0	3	3	3				
7R	E		5826	008871942	FZ	\$3770	0	55	2.69	7	0	3	3	3				
7R	E		1610	008871944	BP	\$36840	5	20	15.7	9	1	4	5	5	2/2	1/1	36840/36840	
7R	E		2995	008871962	BP	\$3360	0	1	1	3	0	0	0	0				
7R	E		2995	008871963	BP	\$4110	0	28	8.39	4	0	3	3	3				
7R	E		2995	008871965	BP	\$2930	6	6	20	2	1	2	3	3	2/2	1/1	2930/2930	
7R	H		1680	008871967	BP	\$925	4	0	0	5	1	0	1	1				
7R	H		1680	008871968	BP	\$782	1	0	0	5	0	0	0	0				
7R	E		2935	008871969	BP	\$1440	14	0	0	6	6	0	6	6				
7R	H		6685	008871971	BP	\$805	2	0	0	1	1	0	1	1				
7R	E		1650	008872160	BA	\$14040	10	0	0	11	4	0	4	4				
7R	H		1660	008874274	BP	\$2200	1	0	0	1	0	0	0	0				
7R	H		1650	008874299	BP	\$9050	0	1	20	1	0	0	0	0				
7R	E		1650	008874305	BP	\$3280	1	0	0	1	0	0	0	0				
7R	E		2915	008874319	DQ	\$3040	12	1	12	1	4	0	4	4	4/5	0/1	0/3040	
1R	D		4810	008874337	BP	\$1040	0	1	20	1	0	0	0	0				

COG	C	FSC	NIIN	UNIT	SMIC	PRICE	BCM	RPR	TAT	OLD	ATTR	RPM	RPM	14/28	INC	14/28	UP
7R	E	1560	008874369	BP	\$16480	1	1	1	1	1	0	0	0	0			
7R	E	1560	008874377	BP	\$13360	3	2	11.5	4	2	1	3	3				
7R	H	1560	008874404	BP	\$19730	0	1	20	2	0	0	0	0				
7R	E	6615	008876721	BP	\$7030	12	0	0	6	6	0	6	6				
7R	E	1660	008076728	BP	\$6190	12	0	0	7	5	0	5	5				
7R	E	1660	008876729	BP	\$7100	11	0	0	6	4	0	4	4				
7R	H	6615	008876765	BP	\$1670	2	5	2.6	6	2	0	2	2				
7R	H	6615	008876766	BP	\$1340	0	6	7.83	1	0	2	2	2				
7R	H	6615	008876768	BP	\$663	0	1	1	0	0	0	0	0				
7R	H	6615	008876775	BP	\$1660	1	0	0	0	1	0	1	1				
7R	H	6615	008876777	BP	\$3180	0	3	1	1	0	0	0	0				
7R	H	4140	008876787	BP	\$647	0	1	1	0	0	0	0	0				
7R	E	6610	008879301	BP	\$3250	6	0	0	7	3	0	3	3				
7R	H	6685	008879302	BP	\$2990	2	0	0	1	1	0	1	1				
7R	H	6685	008879303	BP	\$1190	0	1	0	0	0	0	0	0				
7R	H	6610	008879308	BP	\$1320	1	0	0	1	1	0	1	1				
7R	H	6615	008881180	BP	\$2630	0	3	7.33	1	0	0	0	0				
7R	H	1560	008882231	LC	\$24530	1	0	0	2	0	0	0	0				
7R	H	6615	008883686	BP	\$5100	2	0	0	2	1	0	1	1				
7R	E	1680	008883687	BP	\$1940	7	0	0	1	3	0	3	3				

COG	C	M	FSC	MIIN	SMIC	UNIT PRICE	BCM	RPR	TNT	OLD RCMT	AMTR POOL	RP	RECM RCMT	14/28		UP
														DAY	INC	X
														OST	14/28	14/28
7R	H		6130	008894532	EP	\$359	0	3	.66	1	0	0	1			
7R	H		1630	008905370	LC	\$3700	2	8	2.5	4	1	0	1			
7R	H		1560	008918832	BP	\$19510	0	1	20	0	0	0	0			
7R	E		5821	008932906	FZ	\$16750	0	53	3.15	13	0	3	7			
7R	H		4810	008941467	BA	\$2790	0	1	20	4	0	1	1			
7R	E		1680	008947334	BA	\$9040	4	0	0	6	1	0	1			
7R	H		5841	008950713	MF	\$852	1	0	0	1	0	0	0			
7R	E		5826	008974122	FZ	\$489	1	12	5	2	0	2	2			
7R	H		1660	008974306	LC	\$14460	3	0	0	1	1	0	1			
1R	D		1560	008991033	BP	\$3720	0	2	1	0	0	0	0			
7R	H		5841	009008005	NZ	\$1410	2	0	0	5	2	0	2			
7R	E		5841	009008081	FX	\$3580	1	24	2.75	8	0	2	2			
7R	E		1660	009030836	BP	\$4920	1	0	0	1	0	0	0			
7R	E		2835	009030840	BP	\$2290	5	0	0	7	2	0	2			
7R	E		5826	009050861	FX	\$5320	0	6	1.5	1	0	0	0			
7R	E		6605	009060598	FZ	\$13400	10	10	1	12	4	0	4	3/4	0/0	0/0
1R	D		1680	009062170	BP	\$79	2	0	0	3	1	0	1			
7R	E		2920	009066251	RX	\$2070	6	8	4.75	3	2	1	3	2/2	0/0	0/0
7R	H		1610	009067136	LC	\$3980	5	0	0	1	2	0	2			
7R	E		6125	009069917	BP	\$1850	4	0	0	3	1	0	1			

COG	C	M	FSC	NIIN	UNIT	SMIC	PRICE	BCM	RPR	TAT	OLD	ATTR	POOL	RP	RECH	DAY	INC	UP
7R	H		5865	009081233	BP		\$2400	0	3	.33	0	0	0	0	0			
7R	E		5895	009081718	FX		\$5440	0	16	4.62	7	0	0	2	2			
7R	E		2920	009082535	RX		\$1350	7	0	0	2	3	0	0	3			
7R	M		1660	009084500	LC		\$2030	0	3	8.66	1	0	0	1	1			
7R	E		2835	009089309	BP		\$69900	4	1	20	3	2	0	0	2			
7R	H		1610	009091406	BP		\$1320	0	1	20	1	0	0	0	0			
7R	H		1660	009094309	BP		\$9490	1	0	0	1	0	0	0	0			
7R	H		2995	009117828	BA		\$5900	6	0	0	4	2	0	0	2			
7R	E		7310	009122078	BP		\$9730	2	15	3.06	4	1	2	3	3			
1R	D		1560	009122133	BP		\$1050	1	2	1	2	0	0	0	0			
7R	E		5826	009123285	FZ		\$1810	0	3	1.66	0	0	0	0	0			
7R	E		6610	009123572	FZ		\$1530	1	55	3.72	14	0	0	3	3			
1R	D		5841	009148656	BP		\$975	1	3	10.33	1	1	0	0	1			
1R	D		5841	009148664	BP		\$595	1	3	2.33	1	0	0	0	0			
1R	D		1560	009184570	BP		\$66	1	0	0	0	0	0	0	0			
7R	E		1680	009184600	BP		\$1520	3	1	5	6	1	3	1	1			
7R	H		6615	009186483	BP		\$3730	0	1	15	0	0	0	0	0			
7R	E		5841	009187146	BP		\$8680	0	14	2.92	6	0	0	1	1			
7R	H		1650	009201810	LC		\$301	1		0	0	0	0	0	0			
1R	D		5895	009222995	AZ		\$2010	1	0	0	1	1	0	0	1			

COG	C	M	FSC	NIIN	UNIT	SMIC PRICE	BCM	RPR	TAT	OLD	ATTR	BP	RECH	14/28		UP
														DAY	INC	X
										ROUT	POOL		ROUT	CST	14/28	14/28
1R	D		5841	009240588	FX	\$733	0	4	10.75	1	0	2	2			
1R	D		5841	009240589	FX	\$129	0	1	3	1	0	0	0			
1R	D		5841	009240590	FX	\$352	0	3	13	1	0	1	1			
1R	D		5841	009240592	EX	\$663	0	1	8	1	0	0	0			
1R	D		5841	009240604	FX	\$97	0	7	5.85	1	0	2	2			
7R	E		4140	009248116	BP	\$2490	1	12	10.5	1	0	2	2			
7R	E		6130	009270415	BP	\$1570	0	3	4	1	0	0	0			
7R	E		1630	009271773	BP	\$4010	1	17	10.76	8	0	3	3			
7R	H		1660	009271996	LC	\$385	13	2	1.5	3	4	0	4	4/5	0/1	0/385
1R	D		1560	009274095	BP	\$4510	0	1	7	1	0	0	0			
7R	H		6220	009276147	BP	\$11070	0	6	.83	5	0	0	0			
7R	E		2620	009284502	VX	\$239	180	0	0	82	80	0	80			
7R	E		5626	009289330	KZ	\$579	3	7	5.42	1	1	1	2			
7R	E		5826	009289331	KZ	\$828	2	2	2	1	1	0	1			
7R	E		5826	009289335	KZ	\$7780	22	15	5.46	5	9	2	11	7/8	0/0	0/0
7R	E		5826	009289373	KZ	\$5240	0	7	5.85	1	0	1	1			
7R	E		5841	009302655	PZ	\$22040	1	0	0	4	0	0	0			
7R	E		5841	009302656	PZ	\$10900	0	15	5.73	5	0	2	2			
7R	E		5985	009302657	PZ	\$14060	1	5	2.8	1	1	0	1			
7R	E		4810	009306625	LC	\$3610	3	0	0	2	1	0	1			

COG	C	FSC	MIIN	UNIT SMIC PRICE	BCM	RPR	TAT	OLD RCMT	ATTR POOL	RP	RECM RCMT	14/28		UP X
												DAY	INC	
												OCT	14/28	14/28
1R	D	5826	009349673	K2 \$503	1	0	0	0	0	0	0			
1R	D	5826	009373363	K2 \$1150	1	1	1	0	0	0	0			
7R	H	1560	009376097	BA \$25360	1	0	0	1	0	0	0			
1R	D	1660	009377176	BP \$455	5	0	0	5	1	0	1			
7R	E	5826	009379784	F2 \$4380	0	9	6.88	1	0	2	2			
7R	E	5826	009379785	F2 \$1400	0	1	0	1	0	0	0			
7R	H	5841	0093835-5	BP \$1860	0	3	4.33	1	0	0	0			
7R	H	5841	009383546	BP \$1230	0	3	.66	1	0	0	0			
7R	H	5990	009383548	BP \$6720	0	6	3.33	1	0	0	0			
7R	H	6125	009386539	DX \$2220	2	8	3.5	3	0	1	1			
7R	E	5985	009397495	F2 \$10010	0	16	3.37	8	0	2	2			
7R	H	5826	009421929	F2 \$2390	0	4	5.5	1	0	0	0			
1R	D	6130	009437791	FX \$1620	0	3	12	2	0	1	1			
7R	E	6110	009443046	LC \$5060	8	0	0	4	2	0	2			
7R	E	5895	009462571	FX \$1810	0	1	1	1	0	0	0			
7R	H	5895	009462572	FX \$1140	0	1	3	1	0	0	0			
1R	D	5826	009480468	K2 \$214	0	2	16.5	1	0	1	1			
7R	E	5841	009483626	BP \$9660	0	25	1.96	2	0	2	2			
1R	D	1660	009496041	DA \$274	3	0	0	0	1	0	1			
7R	E	5826	009518189	EX \$3460	9	30	1.1	4	3	1	4	3/3	0/0	0/0

COG	C	FSC	M	C	NTIN	UNIT	SMIC	PRICE	BCM	RPR	TNT	OLD	ATTR	POOL	RP	RECH	14/28		UP
																	DAY	INC	X
												QMT				QMT	CST	14/28	14/28
7R	H	1620			009535572	LC	\$1050		3	0	0	1	1	1	0	1			
7R	E	6605			009550783	BP	\$35720		2	3	0	8	1	1	0	1			
7R	E	1610			009623052	LC	\$18280		1	24	7.45	3	0	3	3	3			
1R	D	4810			009624420	BA	\$580		1	0	0	4	0	0	0	0			
7R	H	5826			009628742	BP	\$1040		1	3	.33	1	0	0	0	0			
7R	H	6615			009631321	BP	\$886		0	2	10.5	1	0	0	0	0			
7R	E	6610			009635783	EV	\$4250		4	0	0	8	3	0	3	3			
7R	H	6130			009642928	EX	\$763		0	1	14	2	0	0	0	0			
7R	H	5826			009649209	EX	\$268		0	2	11.5	0	0	1	1	1			
7R	H	5826			009649210	EX	\$298		0	1	6	1	0	0	0	0			
1R	D	5930			009657111	DQ	\$233		1	6	.83	1	0	0	0	0			
7R	E	6605			009669497	BP	\$12360		0	3	0	4	0	0	0	0			
7R	E	6605			009669498	BP	\$23670		2	2	15.5	4	0	1	1	1			
7R	E	6130			009669500	BP	\$5000		1	3	0	4	1	0	1	1			
7R	E	6605			009669501	BP	\$8740		0	3	3.66	4	0	0	0	0			
7R	H	6605			009669510	BP	\$7570		1	0	0	1	1	1	0	1			
1R	D	5841			009689458	FX	\$554		0	5	6.2	1	0	1	1	1			
7R	H	2915			009719130	LC	\$1320		4	0	0	1	1	1	0	1			
7R	H	2915			009719131	LC	\$1120		1	0	0	0	0	0	0	0			
7R	E	1680			009734891	LC	\$4910		0	3	5.66	1	0	0	0	0			

M C COG	C	FSC	NIN	UNIT	SMIC	PRICE	BCM	RFR	TAT	OLD FOOT	ATTR POOL	RP	RECH FOOT	14/28		UP
														DAY CST	INC 14/28	
7R	E	6610	009751699	FZ	\$2510	1	11	4.09	10	0	2	2				
1R	D	5826	009763348	KZ	\$1931	0	1	3	0	0	0	0				
7R	H	5826	009784749	EX	\$601	0	1	15	1	0	0	0				
7R	E	5821	009787868	FZ	\$1190	0	2	.5	1	0	0	0				
7R	E	1610	009803333	BP	\$2430	1	0	0	8	0	0	0				
1R	D	1610	009807819	BP	\$988	7	0	0	1	6	0	6				
7R	E	3020	009817464	DQ	\$6500	1	0	0	1	0	0	0				
7R	H	1680	009817652	LC	\$3610	2	0	0	1	1	0	1				
7R	H	5826	009859174	FZ	\$1480	0	1	1	1	0	0	1				
7R	H	1680	009863490	BP	\$24910	0	13	5.53	2	0	2	2				
7R	E	6615	009867631	BP	\$22710	0	2	.5	2	0	0	0				
7R	H	6615	009871804	BP	\$2610	1	0	0	1	1	0	1				
7R	H	6615	009871805	BP	\$3120	2	0	0	1	1	0	1				
7R	E	5831	009871815	BP	\$3160	0	18	2.27	6	0	1	1				
7R	E	5935	009871903	BP	\$1630	2	30	4.46	7	0	2	2				
7R	H	4810	009873948	LC	\$4250	2	0	0	2	1	0	1				
7R	E	1670	009896799	LC	\$2030	3	0	0	0	1	0	1				
7R	E	5831	009898978	FZ	\$656	0	12	1.25	3	0	0	0				
7R	E	5841	009917443	PZ	\$5450	0	1	10	1	0	0	0				
7R	H	5841	009917451	PZ	\$1260	0	1	20	1	0	0	0				

COG	M C C	FSC	NIIN	UNIT		ECM	RPR	TAT	OLD RQMT	ATTR POOL	RPT	RECH RQMT	14/28		UP X	
				SMIC	PRICE								DAY	CST	INC	14/28
7R	H	5841	009917456	P2	\$589	0	1	2	0	0	0	0				
7R	H	6130	009917459	P2	\$1160	0	1	20	1	0	0	0				
7R	H	5841	009917461	P2	\$2010	0	4	3.75	1	0	0	0				
7R	H	4810	009919829	LC	\$228	3	4	1	2	1	0	1				
7R	H	4820	009919830	LC	\$175	2	5	.8	0	1	0	1				
7R	H	1650	009948631	LC	\$781	0	1	20	0	0	0	0				
1R	D	5930	009960388	LC	\$2060	0	1	6	0	0	0	0				
7R	H	5820	009972559	EP	\$4790	1	0	0	1	1	0	1				
7R	E	6115	009976517	LC	\$6790	12	2	.5	5	4	0	4		4/5	0/1	0/6790
7R	H	6110	009976518	LC	\$1480	1	5	3	2	0	0	0				
7R	H	6610	009976876	TX	\$891	1	0	0	0	1	0	1				
7R	E	5826	009978974	K2	\$480	0	3	13.66	1	0	1	1				
7R	E	5826	009978975	K2	\$1180	0	2	1	0	0	0	0				
7R	E	5826	009978978	K2	\$883	0	3	1	1	0	0	0				
7R	H	1660	009986323	L2	\$2070	0	15	4.93	10	0	0	2				
7R	H	2915	009990385	FN	\$9480	12	0	0	10	4	0	4				
1R	D	6620	009992424	F2	\$942	3	0	0	6	1	0	1				
7R	E	5895	009993891	FX	\$16840	0	21	2.14	1	0	2	2				
7R	H	5895	009993892	FX	\$1170	0	1	12	1	0	0	0				
7R	E	1610	009994327	BP	\$15660	0	23	8.04	9	0	3	3				

COG	C	M	FSC	NLTN	UNIT	SMIC	PRICE	BCH	RPR	TAT	OLD	ATTR	POOL	RP	RECH	14/28		UP
																DAY	INC	X
											ROMT				ROMT	OCT	14/28	INC
7R	E		5821	009997950	EX		\$3500	0	2	5	1	0	0	0	0			
7R	H		2840	010038359	SN		\$11150	1	0	0	1	0	0	0	1			
7R	E		1680	010042086	LC		\$6020	1	0	0	0	0	0	0	0			
7R	H		1610	010045385	LC		\$1620	0	5	20	1	0	0	2	2			
7R	E		6610	010045856	FZ		\$2210	2	24	6.25	13	1	2	3	3			
7R	H		1630	010054189	LC		\$775	0	1	20	1	0	0	0	0			
7R	H		6130	010055392	FZ		\$2270	0	2	1	1	0	0	0	0			
7R	H		5821	010113808	BP		\$6190	1	0	0	0	0	0	0	0			
7R	H		6130	010113897	FP		\$23700	2	0	0	2	1	0	2	2			
1R	D		2925	010115619	SN		\$930	1	4	1.5	1	0	0	0	0			
1R	D		4220	010117478	LX		\$1620	5	1	0	1	1	0	1	1			
7R	E		5845	010118483	BP		\$4430	0	4	1.25	1	0	0	0	0			
7R	H		5845	010118484	BP		\$6450	0	1	1	0	0	0	0	0			
7R	E		5845	010118486	BP		\$9320	0	1	1	0	0	0	0	0			
7R	E		5826	010121938	ZY		\$11850	1	0	0	6	0	0	0	1			
7R	H		5821	010125050	FP		\$3820	1	0	0	0	0	0	0	0			
7R	H		5895	010130826	XC		\$476	0	4	10.25	2	0	1	1	1			
7R	E		1680	010139501	LC		\$3890	1	0	0	1	0	0	0	0			
7R	E		1630	010140656	LC		\$1430	0	19	1.78	4	0	1	1	1			
7R	H		5845	010143947	BP		\$5000	0	3	7.33	1	0	0	0	0			

COG	C	FSC	NTIN	UNIT SHIC PRICE	BCM	RPR	TAT	OLD RQMT	ATTR POOL	RP	RECH RQMT	14/28		UP X INC
												DAY CST	INC 14/28	
7R	H	5821	010175383	JZ \$1250	2	1	1	1	1	0	1			
7R	E	6110	010175428	BP \$1720	2	26	6.15	13	0	3	3			
1R	D	6130	010175448	BP \$1680	0	10	5.7	6	0	2	2			
7R	H	5821	010184238	JZ \$3070	0	6	.83	5	0	0	1			
7R	E	5821	010184240	JZ \$8750	0	8	2.62	7	0	1	1			
7R	H	5821	010186749	FP \$26710	0	1	0	1	0	0	0			
7R	E	1660	010187764	CS \$1770	8	3	8	0	4	1	5		0/0	0/0
1R	D	6220	010202550	BP \$936	1	2	18.5	1	0	1	1		3/3	0/0
7R	H	6605	010208360	BP \$44580	0	1	1	0	0	0	0			
7R	E	5821	010208384	JZ \$12990	0	1	1	6	0	0	0			
7R	E	2915	010218113	SN \$49910	2	0	0	7	0	0	7			
7R	E	1680	010218440	LC \$4290	0	1	1	0	0	0	0			
7R	H	5895	010218786	CS \$1360	1	0	0	1	1	0	1			
7R	H	5895	010218788	CS \$913	1	0	0	0	1	0	1			
7R	E	5845	010221738	BP \$4900	1	0	0	1	0	0	0			
7R	H	5845	010222244	BP \$5280	0	2	1	0	0	0	0			
7R	H	5845	010222277	BP \$2500	1	1	1	1	0	0	0			
7R	H	5998	010222278	BP \$2410	1	0	0	1	0	0	0			
7R	E	5821	010228572	EE \$46870	0	1	0	0	0	0	0			
7R	E	5895	010228663	FP \$3740	0	2	17.5	1	0	1	1			

UP
X
INC
14/28

M
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COG C

UNIT
PRICE
SMIC

FSC

MIIN

BOA

RFR

TAT

OLD
RQMT

ATTR
POOL

RP

RECH
RQMT

14/28
DAY
CST

INC
14/28

UP
X
INC
14/28

7R	H	5998	010228710	BP	\$1930	0	1	1	0	0	0	0	0	0	0	0	0	0
7R	H	5845	010228711	BP	\$1360	0	1	1	1	0	0	0	0	0	0	0	0	0
7R	H	5895	010230268	CS	\$4550	0	1	2	2	0	0	0	0	0	0	0	0	0
7R	E	5821	010258697	JZ	\$680	1	0	0	1	0	0	0	2	0	0	0	0	0
1R	D	5841	010262508	CS	\$888	0	1	20	1	0	1	1	1	1	1	1	1	1
7R	E	5821	010267365	FP	\$13210	1	0	0	12	0	0	0	0	0	0	0	0	0
7R	H	5865	010277977	EP	\$3990	0	1	20	1	0	1	1	1	1	1	1	1	1
7R	E	5945	010290424	BP	\$573	1	0	0	2	0	0	0	0	0	0	0	0	0
7R	H	6625	010295131	SX	\$891	1	0	0	0	0	0	0	0	0	0	0	0	0
1R	D	5821	010313556	JZ	\$231	0	1	20	2	0	1	1	1	1	1	1	1	1
1R	D	5821	010331300	JZ	\$15	0	1	3	1	0	0	0	1	1	1	1	1	1
7R	H	1650	01032869	LC	\$1090	1	0	0	1	1	0	1	1	1	1	1	1	1
7R	H	5821	010340845	JZ	\$6860	0	1	1	0	0	0	0	0	0	0	0	0	0
7R	H	6605	010345256	LC	\$9120	1	0	0	1	1	1	1	1	1	1	1	1	1
7R	H	6610	010347616	DX	\$3660	0	1	0	1	0	0	0	0	0	0	0	0	0
7R	H	6605	010348736	LC	\$7120	2	0	0	1	1	1	1	1	1	1	1	1	1
1R	D	4130	010349206	SX	\$379	1	0	0	0	0	0	0	0	0	0	0	0	0
7R	E	4130	010349287	SX	\$5560	1	0	0	0	0	0	0	0	0	0	0	0	0
7R	E	2910	010349473	BP	\$1580	18	5	9	8	7	1	1	8	6/7	0/0	0/0	0/0	0/0
7R	H	5845	010349862	FP	\$2050	0	1	5	1	0	0	0	0	0	0	0	0	0

COG	M C	FSC	NIN	UNIT PRICE	BCH	RPR	TAT	OLD QNT	ATTR POOL	RP	RECH QNT	14/28		UP
												DAY	CST	INC 14/28
7R	H	5841	010357257	WZ \$829	2	0	0	0	1	0	1			X
7R	H	5821	010357311	JZ \$1930	1	0	0	1	1	0	3			INC 14/28
7R	E	5841	010380090	WZ \$2350	2	0	0	1	1	0	1			
7R	H	1630	010385126	LC \$2960	2	13	3.69	7	0	2	2			
7R	E	6620	010385769	LC \$456	1	0	0	0	0	0	0			
7R	E	6620	010385801	LC \$1520	4	33	5.72	4	0	3	3	1/2	1/2	1520/3040
7R	E	5841	010391107	WZ \$1920	1	0	0	1	0	0	0			
7R	E	6610	010395020	AZ \$2960	2	0	0	2	1	0	1			
7R	E	5895	010401531	AZ \$2680	0	28	9.89	3	0	4	4			
1R	D	1680	010402182	BP \$80	0	3	2.33	1	0	0	0			
1R	D	6680	010428203	BP \$299	1	0	0	1	0	0	0			
1R	D	6680	010429866	BP \$238	2	1	0	1	1	0	1			
1R	D	6680	010432238	BP \$470	2	1	0	6	1	0	1			
7R	E	1650	010440522	BP \$10320	4	0	0	9	1	0	1			
7R	E	2840	010446941	SN \$118900	10	0	0	4	0	0	4			
7R	E	5895	010449844	AZ \$794	0	5	9.6	1	0	2	2			
7R	E	5845	010449954	BP \$892	0	18	7.05	3	0	2	2			
7R	H	5895	010449970	AZ \$326	0	1	5	1	0	0	0			
7R	E	2840	010458797	SN \$35450	2	0	0	2	0	0	0			
7R	H	5895	010462863	AZ \$2630	0	1	12	0	0	0	0			

COG	C	M	FSC	NIIN	SMIC	UNIT PRICE	BCM	RPR	TAT	OLD RMT	ATTR POOL	RP	RECM RMT	14/28		UP X
														DAY	INC	14/28
7R	H		5845	010468291	BP	\$2630	0	1	1	0	0	0	0			
7R	E		2840	010491153	DQ	\$1140	38	0	0	30	11	0	11			
1R	D		5998	010492632	BP	\$694	0	5	10.4	2	0	2	2			
7R	E		2840	010506360	SN	\$113690	3	0	0	3	0	0	3			
7R	H		5855	010514155	BP	\$1230	2	0	0	1	1	0	1			
7R	H		5855	010514156	FP	\$1580	1	0	0	1	0	0	0			
7R	H		5855	010514157	BP	\$1280	1	0	0	0	0	0	0			
7R	E		4320	010520189	CS	\$9640	9	1	19	0	2	0	2	3/3	1/1	9640/9640
7R	E		5855	010526849	BP	\$227680	0	7	4.28	1	0	1	1			
7R	H		4320	010526937	BA	\$4160	7	0	0	4	2	0	2			
7R	H		5855	010526951	BP	\$18790	0	1	2	0	0	0	0			
7R	H		5855	010526953	BP	\$30430	0	5	5.6	1	0	1	1			
7R	H		5855	010526996	BP	\$3520	1	0	0	0	0	0	0			
7R	H		5855	010527079	BP	\$8780	1	0	0	1	0	0	0			
1R	D		5855	010527090	BP	\$1190	1	0	0	1	0	0	0			
7R	H		5855	010530674	BP	\$2850	0	1	11	1	0	0	0			
7R	H		5895	010532603	BP	\$1040	0	1	1	0	0	0	0			
7R	E		2840	010533055	SN	\$118700	1	0	0	1	0	0	0			
7R	E		2840	010533489	DQ	\$14660	5	0	0	1	2	0	2			
7R	H		2915	010533492	FN	\$3020	4	0	0	5	1	0	1			

M C	COG C	FSC	NIIN	UNIT		BCM	RPR	TAT	OLD QMT	ATTR POOL	RPR	RECH QMT	14/28		UP X INC 14/28
				SMIC	PRICE								DAY CST	INC 14/28	
7R	H	6605	010535554	BV	\$6320	1	0	0	1	0	0	0			
7R	H	5895	010535556	EP	\$26990	0	6	1.5	3	0	0	3			
7R	E	6115	010537272	BP	\$6670	24	8	0	15	11	0	11			
7R	E	5841	010541719	TA	\$3530	3	0	0	1	1	0	1			
7R	E	6605	010543776	BV	\$97630	3	0	0	21	3	0	3			
1R	D	1720	010549434	SX	\$1220	1	0	0	0	0	0	0			
7R	H	5855	010549639	BP	\$31970	1	11	1.36	1	0	0	0			
7R	E	6610	010550468	AZ	\$2530	12	0	0	12	5	0	5			
7R	E	2815	010558946	RX	\$5380	1	0	0	1	0	0	1			
7R	E	4320	010561638	LC	\$2060	3	0	0	4	1	0	1			
1R	D	4320	010564958	SX	\$559	1	0	0	0	0	0	0			
7R	E	5841	010568647	LC	\$24570	0	4	7	4	0	1	1			
7R	E	2840	010577834	DQ	\$65990	2	0	0	1	1	0	1			
7R	E	4810	010585300	BP	\$3360	25	0	0	12	11	0	11			
7R	H	6680	010585859	LC	\$2100	4	2	1	1	1	0	1	1/2	0/1	0/2100
7R	H	6130	010592630	BP	\$36980	0	10	2.6	1	0	1	1			
1R	D	5895	010592992	AZ	\$1420	1	0	0	0	1	0	1			
7R	E	5845	010593422	BP	\$13710	0	12	1	1	0	0	0			
7R	E	5821	010597110	FP	\$115050	1	14	2.35	3	0	1	1			
7R	E	2995	010604443	LC	\$3760	1	0	0	2	0	0	0			

COG	C	FSC	M	C	NIN	SMIC PRICE	UNIT	BCM	RPR	TAT	OLD RMT	ATTR	POOL	RP	RECH RMT	14/28		UP
																DAY	INC	X
																OCT	14/28	14/28
7R	H	5895			010605016	BP	\$2240	0	6	48	1	0	2	2	2			
7R	E	2995			010605087	LC	\$2850	5	0	0	3	2	0	2	2			
7R	H	6680			010605228	LC	\$2170	1	6	1.16	1	1	0	1	1			
7R	H	6605			010609252	FP	\$35040	0	8	1.25	0	0	0	0	0			
7R	E	6605			010609510	FP	\$25100	1	14	3.42	2	0	2	2	2			
7R	H	2840			010615080	SN	\$1250	1	0	0	2	0	0	1	1			
7R	E	5821			010621019	FZ	\$6080	1	12	4.66	2	0	2	2	2			
7R	E	6615			010621688	FP	\$2160	2	0	0	4	1	0	1	1			
7R	E	6620			010639054	BP	\$2060	8	38	5.76	28	6	3	9	9	3/3	0/0	0/0
7R	H	5835			010652733	FP	\$4580	0	2	3.5	1	0	0	0	0			
1R	D	6605			010653737	FP	\$3180	0	6	4.83	1	0	1	1	1			
7R	H	1620			010654867	LC	\$5640	1	0	0	1	0	0	0	0			
7R	E	5895			010657180	FP	\$73640	0	15	7.6	3	0	2	2	2			
1R	D	5835			010658612	FP	\$1130	0	1	7	1	0	0	0	0			
7R	H	7050			010683297	BP	\$4510	1	0	0	2	0	0	2	2			
1R	D	7025			010685389	BP	\$2900	1	0	0	1	0	0	0	0			
7R	H	5841			010687751	CS	\$5480	1	0	0	1	0	0	1	1			
7R	H	5815			010688744	BP	\$6880	1	1	20	0	0	0	0	0			
7R	H	5895			010689101	BP	\$7620	1	0	0	0	0	0	0	0			
7R	H	5845			010693901	BP	\$4680	2	0	0	1	1	0	1	1			

COG	C	M	FSC	MIIN	SMIC	UNIT PRICE	BCN	RPR	TMT	OLD RQMT	ATTR POOL	RFP	RECH RQMT	14/28		UP
														DAY	INC	X
COG	C	M	FSC	MIIN	SMIC	UNIT PRICE	BCN	RPR	TMT	OLD RQMT	ATTR POOL	RFP	RECH RQMT	OST	14/28	INC
														DAY	14/28	14/28
7R	E		5845	010693904	BP	\$870	0	2	6.5	0	0	0	0			
7R	E		5845	010693905	BP	\$682	0	6	7.33	3	0	1	1			
7R	H		5845	010693906	BP	\$1150	1	0	0	0	0	0	0			
7R	H		5845	010693909	BP	\$1040	1	0	0	0	0	0	0			
7R	H		5845	010693928	BP	\$1050	0	2	10.5	0	0	0	0			
7R	E		5845	010693965	BP	\$1840	2	0	0	1	1	0	1			
7R	E		5841	010695547	WZ	\$1560	5	0	0	0	2	0	2			
7R	E		5841	010695574	WZ	\$1580	9	0	0	2	4	0	4			
7R	H		4920	010695595	BP	\$21230	1	0	0	2	0	0	2			
7R	E		1680	010701508	FP	\$13660	1	0	0	4	1	0	1			
7R	E		5841	010701555	BP	\$4060	0	20	2.8	3	0	2	2			
7R	H		5845	010701558	BP	\$853	0	2	4.5	0	0	0	0			
7R	E		2925	010726709	DQ	\$2020	2	0	0	2	1	0	1			
7R	H		4920	010726876	BP	\$4650	1	0	0	0	0	0	1			
7R	E		5960	010727118	CS	\$7400	1	0	0	1	0	0	1			
7R	H		5835	010727693	FP	\$9540	1	1	1	2	0	0	0			
1R	D		6605	010732660	FP	\$1740	0	1	1	0	0	0	0			
7R	H		5845	010734476	BP	\$32800	0	3	1.33	0	0	0	0			
7R	H		6680	010737582	LC	\$647	3	4	1	0	1	0	1			
1R	D		4220	010743408	LX	\$1060	1	0	0	2	0	0	0			

COG	C	M	FSC	NTIN	UNIT	SMIC	PRICE	BCH	RPR	TAT	OLD	ATTR	POOL	RP	RECH	14/28		UP	
																DAV	OST	INC	INC
7R	E	5841	010802881	WZ	\$1130	2	0	0	0	1	1	0	0	1					
7R	H	5821	010814919	BP	\$12220	1	1	0	0	0	0	0	0	0					
7R	H	5855	010817832	BP	\$10030	0	1	20	1	0	0	0	0	0					
1R	D	6130	010817835	UZ	\$843	0	1	20	1	0	0	0	0	1					
7R	H	6340	010818014	BP	\$6590	1	0	0	0	1	1	0	1	0					
7R	E	6605	010818015	BP	\$5330	1	0	0	0	1	0	0	0	0					
7R	H	6605	010818016	BP	\$1670	1	0	0	0	1	0	0	0	0					
7R	E	5826	010821434	TZ	\$2380	2	0	0	0	0	1	0	1	0					
7R	E	6340	010827188	FP	\$2680	12	0	0	0	0	0	0	0	0					
7R	E	5841	010827950	WZ	\$2120	1	2	3.5	1	0	0	0	0	0					
7R	E	5841	010827951	WZ	\$2580	20	6	.66	1	9	0	0	0	0					
1R	D	1670	010831397	LX	\$310	19	3	4.33	30	3	0	0	0	0					
7R	E	5826	010831401	KZ	\$12070	1	121	2.69	13	0	4	4							
1R	D	5895	010834608	EP	\$2160	0	1	20	2	0	1	1	1	1					
1R	D	1610	010850310	BP	\$609	0	7	6.14	0	0	2	2	2	2					
7R	E	8120	010852733	BP	\$152	26	0	0	1	9	0	9	9	9					
7R	E	4810	010857038	BP	\$2000	2	3	6.66	1	1	0	1	0	1					
7R	H	6615	010861257	GA	\$920	1	0	0	3	1	0	1	0	1					
7R	H	5815	010871513	BP	\$1270	1	0	0	0	1	0	1	0	1					
7R	E	5841	010874423	WZ	\$4830	0	1	20	0	0	0	0	0	0					

7/7 0/0 0/0
6/7 3/4 930/1240

COG	C	M	FSC	MIIN	SMIC	PRICE	BCM	RFR	TAT	OLD PQMT	ATTR POOL	RP	RECM PQMT	14/28		UP	
														DAY	INC	INC	14/28
														CST	14/28		14/28
7R	E	5841	010876196	WZ	\$8850	12	24	3.45	8	5	2	7	7	4/5	0/0	0/0	
7R	H	5841	010883601	ZW	\$837	1	0	0	0	0	0	0	0				
7R	H	5841	010883812	ZW	\$1060	1	1	14	0	0	0	0	0				
7R	H	5815	010884771	BP	\$970	1	0	0	0	1	0	1	1				
7R	H	5841	010886359	ZW	\$299	0	1	1	0	0	0	0	0				
7R	H	5841	010886360	ZW	\$315	1	0	0	0	0	0	0	0				
7R	H	5841	010886363	ZW	\$925	5	1	1	0	2	0	2	2		0/0	0/0	
7R	H	5841	010886364	ZW	\$273	1	1	1	1	0	0	0	0				
7R	E	5841	010890134	CS	\$127230	1	5	1	7	0	0	2	2				
7R	H	5985	010890737	ZW	\$19120	1	2	10	7	0	1	1	1				
7R	H	5841	010891022	ZW	\$1590	0	1	10	4	0	0	0	0				
7R	H	5841	010891064	ZW	\$15300	1	10	4.2	5	0	2	2	2				
1R	D	5895	010893434	EW	\$1400	0	2	14	2	0	1	1	1				
7R	H	5841	010903434	ZW	\$14110	4	0	0	0	1	0	1	1				
1R	D	4920	010915995	TX	\$835	1	0	0	0	0	0	0	0				
7R	H	5841	010918929	ZW	\$25730	0	10	7.5	10	0	2	2	2				
7R	H	5845	010938912	BP	\$8800	0	3	1.33	0	0	0	0	0				
7R	H	4920	010946407	BP	\$31540	1	0	0	0	0	0	0	0				
7R	E	5845	010952481	BP	\$5420	0	6	4.66	0	0	1	1	1				
7R	E	5845	010952660	BP	\$4280	0	3	11.331	0	1	1	1	1				

COG	C	M	FSC	NTIN	UNIT		BCM	RPR	TAT	OLD	ATTR		RPT	RECH	14/28		UP
					SMIC	PRICE					POT	POOL			DAY	INC	
7R	H		5915	010985524	BP	\$5690	0	1	1	0	0	0	0	0			X
1R	D		5965	011011852	BP	\$756	0	4	2.75	1	0	0	0	0			INC
7R	H		2840	011016225	SN	\$3800	2	0	0	1	1	0	0	1			14/28
7R	E		1730	011018827	SX	\$662	3	1	2	2	1	0	0	1			
7R	H		2840	011024200	SN	\$1900	1	0	0	2	0	0	0	1			
7R	H		5815	011026811	BP	\$35420	0	1	1	0	0	0	0	0			
7R	H		1660	011049387	BP	\$1140	0	1	2	1	0	0	0	0			
7R	H		4920	011049388	BP	\$873	1	1	15	1	0	0	0	0			
7R	H		1660	011049389	BP	\$1350	1	0	0	2	0	0	0	0			
7R	H		5821	011049499	FP	\$7970	0	1	20	0	0	0	0	0			
7R	H		5821	011049593	FP	\$32440	0	5	4.8	0	0	0	1	1			
7R	H		5841	011078310	ZW	\$278	3	0	0	1	1	0	1	1			
7R	H		5865	011108989	EW	\$17920	1	8	1.5	14	0	0	0	4			
7R	H		5865	011108990	EW	\$23270	1	1	1	11	0	0	0	0			
7R	H		5865	011108991	EW	\$18650	1	1	1	11	0	0	0	1			
7R	H		5865	011108992	EW	\$18370	0	1	0	12	0	0	0	2			
7R	H		5865	011108993	EW	\$17120	1	5	4	14	0	1	1	1			
7R	H		5865	011122721	EW	\$18710	1	8	1.25	12	0	0	0	1			
7R	H		5845	011133179	BP	\$8980	0	2	10.5	0	0	0	0	0			
7R	H		5845	011133365	BP	\$3220	1	0	0	1	0	0	0	0			

COG	C	M	FSC	NIIN	UNIT	SMIC	PRICE	BCN	RPR	TAT	OLD	ATTR	POOL	RP	RECH	14/28		UP
																DAY	INC	X
											ROMT				ROMT	OST	14/28	INC
7R	H		6130	011133413	BP	\$4180	1	0	0	0	0	0	0	0	0			
7R	E		2915	011148652	BP	\$3850	25	3	.66	11	11	0	0	0	11	8/9	0/0	0/0
7R	E		1630	011151715	BP	\$2400	2	183	2.36	23	0	5	5	5	5			
7R	H		5821	011166968	FZ	\$2190	2	0	0	0	1	1	0	1	1			
7R	E		1430	011168628	CY	\$12700	4	0	0	0	10	2	0	24	24			
7R	H		2815	011177102	BP	\$2710	1	0	0	0	0	0	0	1	1			
7R	H		5865	011204690	EP	\$9460	0	2	1	2	0	0	0	2	2			
7R	H		5865	011204692	EP	\$6930	0	3	2	4	0	0	0	1	1			
7R	H		5865	011204693	EP	\$6930	0	2	1	1	1	0	0	1	1			
7R	H		5865	011204809	EP	\$5770	0	4	1.25	0	0	0	0	0	0			
7R	H		5865	011204810	EP	\$17310	0	51	1.62	6	0	2	2	2	2			
7R	H		5865	011204820	EW	\$1740	2	0	0	2	1	0	1	0	1			
7R	H		5865	011204875	EP	\$692	0	1	6	1	0	0	0	1	1			
1R	D		4220	011204894	LX	\$255	40	174	3.52	10	7	4	4	11	11	13/14	6/7	1530/1785
7R	H		5865	011205698	EW	\$39300	0	43	2.09	13	0	2	2	3	3			
7R	H		5841	011207178	EP	\$34610	1	18	2.88	8	0	2	4	4	4			
7R	E		5841	011211926	EP	\$7790	1	25	2.36	8	0	2	2	2	2			
7R	H		5865	011212974	EW	\$2480	25	0	0	8	12	0	0	12	12			
7R	H		5865	011214407	EP	\$6930	0	4	1.25	1	0	0	0	1	1			
7R	H		5865	011214408	EP	\$6930	0	3	6	1	0	0	0	1	1			

COG	C	M	FSC	NIIN	UNIT	SMIC	PRICE	BCM	RPR	TMT	OLD	RMT	ATTR	POOL	RP	RECH	RMT	14/28		UP	
																		DAY	INC	X	INC
																		OCT	14/28		14/28
7R	H		5865	011214416	EP	\$34610	0	3		.33	5		0	0	0	1					
7R	E		5865	011214509	BA	\$35260	0	19		1.1	10		0	1	1	1					
7R	H		6625	011214522	EP	\$1270	4	0	0	4	4		2	0	0	4					
7R	H		6625	011214573	EP	\$781	2	0	0	0	2		2	0	0	2					
7R	E		5865	011214602	EP	\$17770	0	16		2.93	9		0	2	2	2					
7R	H		6680	011217070	LC	\$1960	3	2	1	1	1		1	0	1	1					
7R	H		6680	011217071	LC	\$1160	2	2	4	0	1		1	0	1	1					
7R	H		1095	011224884	BP	\$14780	0	1	1	1	0		0	0	0	0					
7R	H		5865	011229350	EW	\$9340	0	25		1.48	13		0	2	2	2					
7R	H		6680	011232647	LC	\$1800	1	0	0	1	1		0	0	0	0					
7R	H		5841	011247889	EP	\$23070	0	3		6.66	8		0	1	4	4					
7R	H		6625	011247939	EP	\$1250	4	0	0	0	6		2	0	0	5					
7R	H		5845	011250047	BP	\$5130	0	6	6	0	0		0	1	1	1					
7R	H		2520	011258170	SK	\$1520	1	0	0	0	0		0	0	0	0					
7R	E		1680	011276178	CS	\$51250	5	0	0	0	0		1	0	1	1					
7R	H		5865	011285335	EP	\$19650	0	23		2.6	9		0	2	2	2					
7R	H		5841	011301099	EW	\$3860	7	2	3	10	4		4	0	0	7		2/3	0/0	0/0	
7R	H		5841	011301385	EW	\$1940	0	2	3.5	2	0		0	0	0	2					
7R	E		5841	011301392	EW	\$35770	1	76		2.72	21		0	3	9	9					
7R	H		6625	011301395	EP	\$15560	0	40		4.22	16		0	3	4	4					

COG	C	FSC	NINW	SMIC	PRICE	BCM	RPR	TAT	OLD RMT	ATTR POOL	RPR	RECM RMT	14/28		UP	
													DAY OST	INC	X	INC
7R	H	5841	011311438	EW	\$924	1	4	3	7	0	0	7				
7R	H	6130	011311440	EW	\$1660	27	0	0	13	14	0	14				
7R	H	5865	011319190	EP	\$61860	0	7	1.85	1	0	0	1				
7R	H	5865	011319191	EP	\$74030	0	4	2	1	0	0	1				
7R	H	5865	011321315	EP	\$74030	0	4	2.5	1	0	0	1				
7R	E	5865	011321316	EP	\$74030	0	3	3	1	0	0	1				
7R	H	1650	011323641	LC	\$15080	5	0	0	0	1	0	1				
1R	D	1670	011341380	LX	\$103	1	0	0	0	0	0	0				
1R	D	1670	011341381	LX	\$103	1	0	0	0	0	0	0				
7R	H	5865	011342327	EP	\$74030	0	12	.83	4	0	0	1				
7R	H	1650	011344415	LC	\$11790	3	0	0	1	1	0	1				
7R	H	5841	011351543	EP	\$101010	2	7	3.85	6	1	1	2				
7R	E	2840	011353668	SN	\$1100	1	0	0	5	0	0	5				
7R	E	2840	011358372	PQ	\$3330	29	0	0	74	7	0	9				
7R	E	2840	011358960	PQ	\$85840	1	0	0	0	0	0	0				
1R	D	5999	011359154	FA	\$284	0	1	18	0	0	0	0				
7R	E	6615	011365040	FP	\$2880	1	0	0	7	0	0	0				
7R	H	5831	011376217	EP	\$1160	0	1	0	1	0	0	1				
7R	E	6605	011380817	TF	\$1920	2	0	0	6	1	0	1				
1R	D	6685	011388091	PQ	\$890	1	0	0	1	0	0	1				

COG	C	M	FSC	NIIN	SMIC	PRICE	BCM	RPR	TAT	OLD	ATTR	POOL	RP	RECH	14/28	DAY	OCT	INC	14/28	UP	X	INC	14/28
7R	H		1560	011395595	BP	\$133700	0	1	20	0	0	0	0	0	0								
7R	E		6605	011395598	FA	\$22490	6	0	0	11	3	0	0	3									
7R	H		5821	011395807	FP	\$3310	1	0	0	3	0	0	0	0									
7R	H		5821	011395809	FP	\$2110	0	1	1	1	0	0	0	1									
7R	H		5841	011397372	EP	\$3770	0	1	20	1	0	1	1	1									
7R	H		5826	011397438	FZ	\$645	1	0	0	0	0	0	0	0									
7R	H		5845	011403604	BP	\$3540	1	0	0	0	0	0	0	0									
1R	D		5865	011412382	EP	\$5590	0	1	1	1	0	0	0	1									
7R	E		5865	011419657	BP	\$45360	0	1	1	1	0	0	0	0									
7R	H		1610	011424521	BP	\$3320	2	6	20	1	0	2	2	2									
7R	E		4810	011428229	BP	\$2620	0	11	3.27	13	0	1	1	1									
7R	H		1610	011435531	LC	\$2630	1	1	0	0	0	0	0	0									
7R	H		5865	011444313	EP	\$26550	0	2	.5	2	0	0	0	2									
7R	H		5865	011444314	EP	\$26550	0	1	1	7	0	0	0	6									
7R	H		5865	011444317	EP	\$26550	0	1	0	6	0	0	0	2									
7R	H		5865	011444347	EP	\$3320	0	1	13	5	0	0	0	4									
7R	H		5841	011444358	EP	\$5160	0	2	20	1	0	2	2	2									
7R	E		6615	011452749	BP	\$79440	1	67	2.17	7	0	2	2	2									
7R	H		5845	011457022	BP	\$6270	1	1	1	0	0	0	0	0									
7R	H		5895	011472929	EP	\$7710	2	0	0	5	1	0	0	1									

COG	C	M	FSC	NIIN	UNIT	SMIC	PRICE	BCM	RPR	TAT	OLD	ATTR	RP	RECH	14/28		UP
															DAY	INC	X
											ROMT	POOL		ROMT	OST	14/28	INC
7R	E		5826	011473098	FZ		\$1810	0	5	1	15	0	0	0			14/28
7R	H		5865	011486427	BA		\$7580	0	1	1	2	0	0	0			X
7R	H		2840	011510836	PQ		\$16090	1	0	0	0	0	0	0			INC
1R	D		5998	011520913	TX		\$499	1	0	0	0	0	0	0			14/28
7R	H		4920	011520932	DQ		\$2130	1	0	0	1	0	0	1			
7R	H		4920	011520933	DQ		\$4460	1	0	0	1	0	0	1			
7R	H		4920	011520935	DQ		\$5460	1	0	0	1	0	0	1			
7R	H		4920	011520936	DQ		\$4750	1	0	0	1	0	0	1			
7R	E		4810	011525662	BP		\$2190	2	18	3.33	7	0	2	2			
7R	H		7021	011528263	VK		\$67000	0	12	.66	1	0	0	2			
7R	H		5845	011542954	BP		\$5410	0	2	1	0	0	0	0			
7R	H		5895	011547517	EP		\$5150	1	1	0	5	0	0	0			
7R	H		5815	011547572	BP		\$46870	1	1	1	1	0	0	0			
7R	H		6130	011552671	EW		\$16590	0	2	1	11	0	0	0			
7R	H		4920	011553059	DQ		\$4750	1	0	0	1	0	0	1			
7R	E		5815	011560888	BP		\$3740	5	0	0	1	2	0	2			
7R	E		5815	011561131	BP		\$1300	1	1	1	2	1	0	1			
7R	E		5815	011561279	BP		\$1810	0	1	0	1	0	0	0			
7R	H		5865	011569356	FP		\$2450	1	0	0	0	1	0	1			
7R	E		5820	011586082	EX		\$889	69	118	2.74	38	12	3	48		22/24	8890/10668

COG	C	M	FSC	NIIN	SMIC	PRICE	BCH	RPR	TNT	OLD	ATTR	POOL	RP	RECH	FOOT	14/28		UP	
																DAY	CST	INC	INC
																		14/28	14/28
7R	E		1660	011590078	BP	\$7500	4	0	0	8	2	0	0	2					
7R	H		5821	011618557	FP	\$994	1	0	0	0	1	0	0	1					
7R	H		5821	011618559	FP	\$939	0	6	4.5	1	0	1	1	1					
7R	E		5985	011644199	EP	\$13030	1	0	0	2	0	0	0	0					
7R	E		5895	011644200	BP	\$34490	2	0	0	1	1	0	0	2					
7R	H		5963	011663450	FP	\$2110	1	0	0	1	1	0	1	1					
7R	E		5841	011665018	LC	\$5410	1	2	1	0	0	0	0	0					
7R	E		1610	011669359	LC	\$4010	3	4	4.75	1	1	0	1	1					
7R	H		2915	011713486	RX	\$2840	1	0	0	0	0	0	0	0					
7R	H		5963	011723711	FP	\$3690	1	0	0	1	1	0	1	1					
7R	H		1650	011729446	CS	\$3360	1	5	8.6	0	0	1	1	1					
7R	H		5895	011746993	FP	\$14740	3	0	0	1	1	0	1	1					
1R	D		6220	011758840	BA	\$188	2	0	0	0	1	0	1	1					
1R	D		2920	011758904	RX	\$1920	1	2	3.5	0	0	0	0	1					
7R	H		5841	011759090	EW	\$2450	1	0	0	0	0	0	0	0					
7R	E		6685	011763649	BP	\$1480	2	122	4.22	25	0	5	5	5					
7R	H		5821	011763693	EW	\$5970	1	0	0	2	0	0	0	0					
7R	E		4310	011779505	BP	\$12250	2	0	0	3	1	0	1	1					
7R	H		6105	011783290	EP	\$8680	1	0	0	2	0	0	0	2					
7R	E		1660	011794064	FZ	\$2330	11	34	4.85	10	2	2	2	4			4/4	2/2	4660/4660

COG	C	M	FSC	NIIN	SMIC	PRICE	BCM	RPR	TAT	OLD RMT	ATTR POOL	RP	RECM RMT	14/28		UP
														DAY	OST	X INC 14/28
1R	D		1680	011811374	BP	\$2470	1	16	6.31	8	0	2	2			
1R	D		1680	011813218	BP	\$2620	5	10	9.8	14	3	2	5	2/2	0/0	0/0
1R	D		2920	011820366	SX	\$723	1	0	0	0	0	0	0			
7R	E		4320	011842399	DQ	\$1640	1	4	16.75	7	0	1	1			
7R	H		2915	011851847	LC	\$2990	3	0	0	0	1	0	1			
7R	H		5826	011884128	FZ	\$1850	1	6	9	5	0	2	2			
7R	H		5831	011907804	BP	\$11570	0	3	1	0	0	0	0			
7R	E		2835	011917057	SX	\$140230	2	0	0	1	1	0	1			
7R	H		5895	011926486	EP	\$17690	0	1	1	0	0	0	0			
7R	E		2840	011932157	DQ	\$8160	4	0	0	1	1	0	1			
7R	H		6625	011933814	BA	\$17690	0	2	1	5	0	0	0			
7R	H		5985	011987695	EW	\$101880	0	7	5.85	6	0	2	2			
7R	H		5985	011987729	EW	\$3560	0	1	20	2	0	1	1			
7R	H		5985	011987731	EW	\$4060	0	1	20	2	0	1	1			
7R	H		6130	011987742	EW	\$31180	0	5	4.2	6	0	1	1			
7R	H		5865	011994672	BA	\$7440	2	0	0	0	1	0	1			
7R	E		2840	012014961	PQ	\$184410	1	0	0	1	0	0	2			
7R	H		5836	012015734	ZW	\$54410	2	3	2.66	4	1	0	1			
7R	H		5865	012016169	ZW	\$23580	0	38	4.15	13	0	3	3			
7R	H		5985	012027790	EW	\$2220	0	2	16.5	1	0	1	1			

COG	C	FSC	NIIIN	SMIC	PRICE	BCM	RPR	TMT	OLD RQMT	ATTR POOL	RPR	RECH RQMT	14/28		UP X INC
													DAY	OCT	
7R	H	5895	012027868	EW	\$35660	0	28	1.71	4	0	2	2			
7R	E	5895	012033465	AZ	\$409	2	8	15	1	0	2	2			
7R	H	5895	012045640	BA	\$50940	0	1	1	3	0	0	0			
7R	H	5836	012056794	2W	\$8300	0	1	5	4	0	0	0			
7R	E	2840	012061947	SN	\$76560	1	0	0	1	0	0	4			
7R	H	5836	012072035	2W	\$1200	0	1	1	4	0	0	0			
7R	H	5845	012087861	BP	\$6380	0	3	.66	0	0	0	0			
7R	H	2935	012135778	CS	\$3040	1	0	0	0	0	0	0			
7R	H	6610	012145359	LC	\$2390	1	0	0	0	0	0	0			
7R	H	2840	012160445	SN	\$1560	2	0	0	2	1	0	4			
7R	E	2995	012163817	SN	\$13020	2	0	0	7	0	0	4			
7R	E	2840	012185553	TN	\$6730	1	0	0	3	0	0	0			
7R	E	5895	012185561	FP	\$3160	0	4	10.5	0	0	2	2			
7R	E	5895	012185562	FP	\$3170	3	5	10.2	0	3	2	5			
7R	E	5895	012185565	FP	\$2220	0	2	2.5	0	0	0	0			
7R	E	5895	012185676	FP	\$936	0	1	19	0	0	0	0			
7R	H	5895	012185677	FP	\$648	2	0	0	0	1	0	1			
7R	E	5831	012187337	BA	\$4730	1	1	0	4	0	0	0			
7R	H	5831	012187338	BA	\$4730	3	1	1	3	1	0	1			
7R	H	5831	012188557	BA	\$4730	1	1	1	3	0	0	0			

M C	COG	C	FSC	NTIN	SMIC	PRICE	BCM	RPR	TAT	OLD RQMT	MTR POOL	RPT	RECH RQMT	14/28		UP X	
														DAY	CST	INC	14/28
7R	H	5831	012191095	BA	\$4730	4	0	0	0	3	2	0	2				
7R	H	5831	012195744	BA	\$4730	4	1	0	0	4	2	0	2				
7R	H	6610	012200372	LC	\$7320	1	0	0	0	0	0	0	0				
7R	H	5831	012225582	BA	\$4730	1	0	0	0	3	0	0	0				
7R	E	7050	012241626	FP	\$4470	0	1	20	1	0	0	0	0				
7R	H	7021	012241976	VK	\$7340	1	0	0	0	1	0	0	3				
7R	H	2840	012242159	DQ	\$6660	5	0	0	0	0	2	0	2				
7R	H	4810	012254557	BP	\$786	1	0	0	0	0	0	0	0				
7R	H	7021	012255562	VK	\$126200	0	12	.33	3	0	0	0	3				
7R	E	5841	012266604	P2	\$5200	2	3	13	1	0	0	1	1				
7R	E	6620	012300197	P2	\$1090	31	13	.07	3	14	0	0	14		10/11	0/0	
7R	E	2995	012374089	TN	\$20880	1	0	0	0	0	0	0	0				
7R	H	5826	012377850	TX	\$2590	0	1	16	0	0	0	0	1				
7R	H	6605	012405432	FA	\$14740	1	0	0	0	0	0	0	0				
7R	H	5845	012421500	BP	\$17560	0	1	1	1	0	0	0	0				
7R	H	5865	012429765	FP	\$2950	1	0	0	0	0	0	0	0				
7R	H	1650	012455935	BP	\$3950	1	1	1	1	1	0	0	0				
7R	E	2840	012458176	PQ	\$4510	12	0	0	0	28	3	0	28				
7R	E	2840	012458177	PQ	\$3890	4	0	0	0	4	1	0	1				
7R	E	2840	012458178	PQ	\$3810	3	0	0	0	4	1	0	15				

COG	C	M	FSC	NTIN	UNIT PRICE	BCM	RPR	TAT	OLD	ATTR	POOL	RP	RECH	14/28		UP
														DAY	INC	X
									EQMT				EQMT	CST	14/28	14/28
7R	E		5821	012489235	EE \$58670	0	10	12	21	0	0	2	2			
7R	E		1680	012539642	BP \$4920	2	2	18	3	0	0	1	1			
7R	E		6620	012569703	UX \$796	7	0	0	5	2	0	0	2			
7R	E		5841	012571966	CS \$142450	1	12	2.91	13	0	0	2	2			
7R	H		5865	012596844	BA \$5790	1	8	5.5	5	0	0	2	2			
7R	H		5865	012653582	BA \$3000	1	0	0	0	0	0	0	0			
1R	D		5999	012660986	FP \$242	0	1	1	1	0	0	0	0			
7R	H		5865	012673201	EP \$6540	0	4	1	0	0	0	0	0			
7R	H		1610	012688008	LC \$4720	0	3	7.33	1	0	0	1	1			
7R	H		5985	012691260	BP \$71430	1	1	18	1	1	0	0	1			
7R	H		5955	012732554	EP \$2920	1	0	0	2	0	0	0	2			
7R	H		5841	012755624	EP \$5810	1	13	1.53	0	0	0	1	1			
1R	D		5999	012773581	FP \$1330	0	1	1	3	0	0	0	0			
7R	H		5895	012847758	CS \$6820	3	0	0	2	2	0	0	4			
7R	E		4310	012960634	BP \$32890	22	0	0	-	-	-	-	-			
7R	H		2915	012963813	DQ \$10220	12	0	0	4	4	0	0	4			

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12. Commander Navy Supply Systems Command Message, Subject: FY-889 Service Wide Transportation (SWT) Funding Message No.I 211501Z Nov 88.
13. Department of Defense Directive 4410.6, Uniform Material Movement and Issue Priority System, 30 October 1980.
14. Interview between Brian Shepard, Lieutenant, SC, USN, Naval Station, Aviation Supply Officer, Rota, Spain, and author April 1989.

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